Outdoor America

APRIL, 1926

Price 25 Cents

Owned and Published by the Izaak Walton League of America

DEFENDER OF WOODS, WATERS AND WILD LIFE

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TRADE MARK REG.

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by
Frank E. Brimmer

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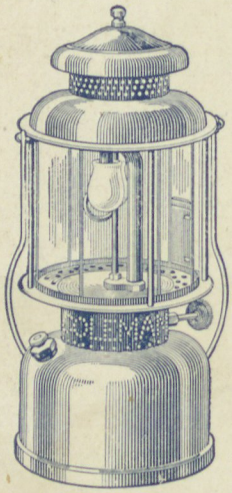

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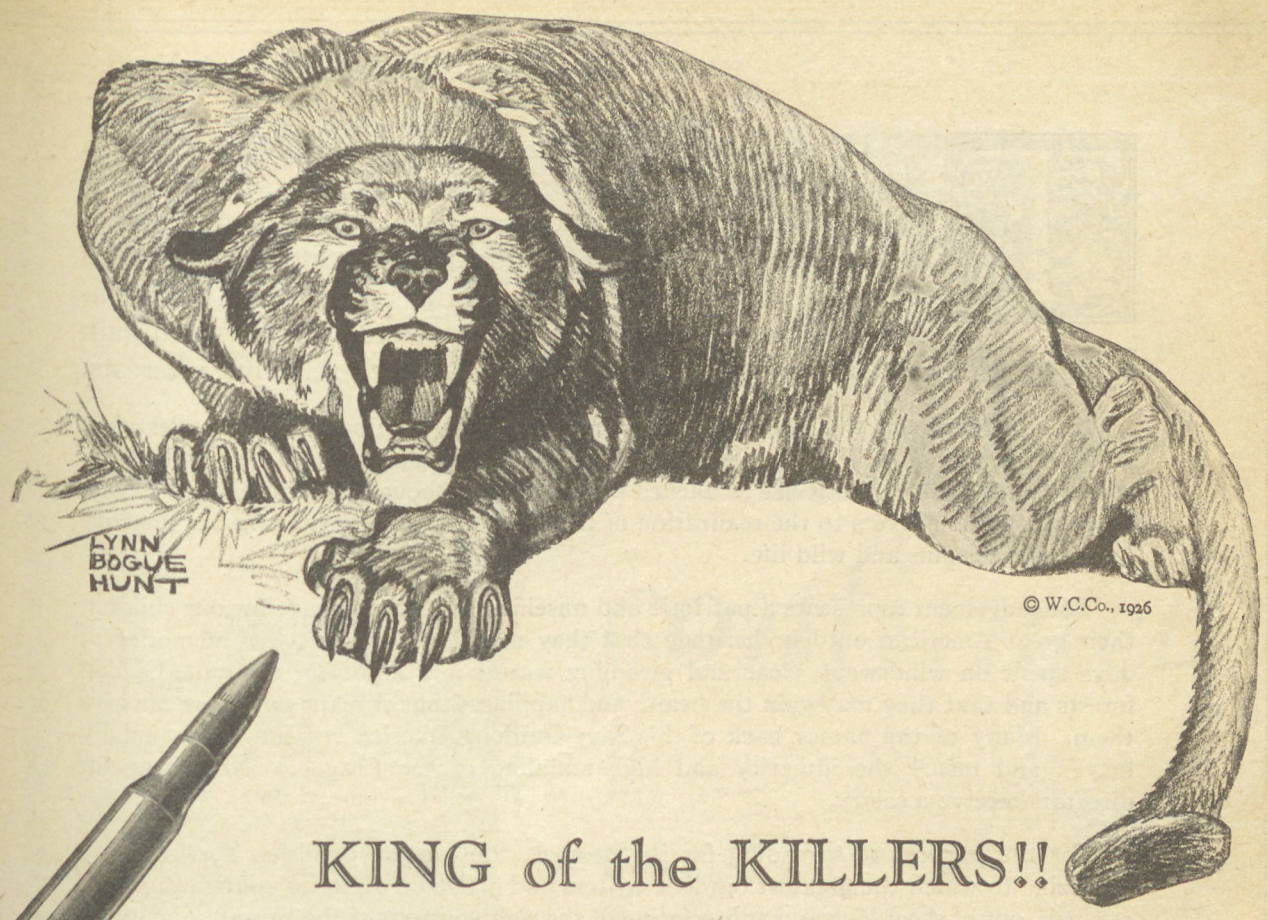

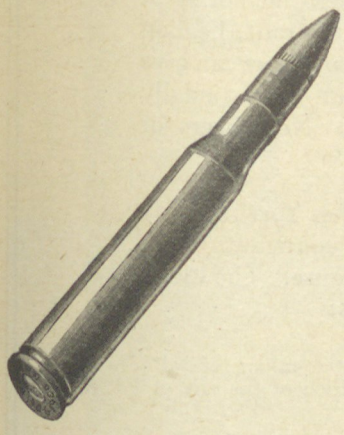

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You've trudged for days—hunting him through rugged mountain forests . . . . the mountain lion . . . . killer of more game than a hundred sportsmen. . . . And now!!—Who'll win?? . . . . With a threatening snarl he sinks to leap. . . . Wicked, close-set eyes measuring every move you make. . . . Teeth and claws anxious to rip and tear!

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Other booklets describe *Super-X* in all gauges, 10 to .410, and the sensational new *Xpert* shell which is winning so many friends among trap and field shooters.

Western

AMMUNITION

THE IZAAK WALTON LEAGUE OF AMERICA is a National Organization of fishermen and hunters and outdoor lovers dedicated to the restoration of sports afield and astream in the United States and Canada and the restoration as far as can be of the outdoor America of our ancestors. It is a National Organization having no commercial or personal gain or aggrandizement under it; neither has it political or religious interests.

It is undoubtedly the most comprehensive conservation program ever undertaken in America. Though just four years old, it has local chapters from one end of the country to the other, and it has awakened thousands and thousands of principled sportsmen and outdoor lovers to the realization of the perils that are threatening our precious woods and streams and wild life.

The movement represents a patriotic and unselfish endeavor to save for our children their great American outdoor heritage that they may have the priceless memories of days spent on windswept, clear and gleaming waters and nights in fragrant, healing forests and that they may gain the health and happiness that only the out doors can give them. Many of the names back of this Save-Outdoor-America crusade are nationally known and insure the integrity and high standing of the League. No officers or directors receive a salary.

For the purpose of spreading far its message, the League publishes this monthly magazine to which the greatest outdoor writers and artists in America contribute without pay, out of sheer love and appreciation of the righteousness of the cause. The ideals and purposes of the League are embodied in its Platform which follows:

1. The practice of true sportsmanship in hunting and fishing, and strenuous and unremitting opposition to illegal, destructive and unfair methods.

2. An aggressive program calling for National and State legislation to eradicate pollution from coastal and inland waters.

3. The broadest and most comprehensive system of Federal control feasible over our forests, to embrace the best features of the forestry policies of Europe so far as applicable to our conditions.

4. Constructive opposition to artificial drainage which will be injurious to any natural resources, and the restoration of desecrated areas.

5. That adequate public shooting and fishing grounds and game refuges be established by the State and National Governments.

6. Sufficient fish hatcheries and game farms for the increased propagation and wider distribution of fish and game.

7. Prohibition of the sale and interstate shipment of game and of fresh water game fishes excepting for purposes of propagation.

8. Scientific regulation of the taking of salt water game fishes and prohibition of the sale of certain anadromous species.

9. The strictest enforcement of the migratory bird law.

10. The establishment of biological experiment stations to train scientific workers so that all game and fish propagation and distribution may be safeguarded by expert supervision and counsel.

11. The united support of those public officials, regardless of their party affiliations, who show themselves to be in sympathy with the principles of true conservation.

12. The fullest measure of co-operation between all organizations devoted to the interests of the outdoorsmen of America.

13. An unceasing, aggressive, educational campaign to the end that the objects of the Izaak Walton League of America may be attained.

14. That outdoor recreation as a major part of the life, education and spiritual development of the American youth be nurtured.

Raise Price of Outdoor America

In accordance with a resolution recently passed by the National Executive Committee of the Izaak Walton League, the following prices will become effective with this issue.

Yearly subscription $3.00, membership-at-large $2.50, (including magazine).

News stands, 25c per copy.

Rumors confirmed

IT is the great human habit for all of us to speculate on the actions of a leader in any industry. We watch every incident in their history and then strive to forecast what bearing each event will have on their next step toward greatness. Thus are rumors born.

Since last October 4th, when an 18-foot Evinrude-powered boat performed the amazing feat of completing a crossing of the continent by water for the first time in American history, the exact significance of this incident has been on the minds of thousands of our friends.

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We are pleased to confirm these rumors, though until now our developments have been conducted in the strictest secrecy befitting their importance. Twelve new improvements have been added to the Evinrude Sport Twin for 1926. In our judgment these additions make this greater Evinrude exceed all previous conceptions of what an ideal outboard should be. Months of careful testing are completed and the world's oldest and largest outboard motor plant is geared to care for what now looks to be the greatest year in Evinrude history.

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495 Evinrude Bldg. Milwaukee, Wis.

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The New 1926 Champion EVINRUDE Sport Twin

The more results our advertising brings, the more advertising we will carry.

Defender of Woods, Waters and Wild Life

Outdoor America

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EDITORIAL STAFF

EWART H. ROSS, *Managing Editor*

DR. HENRY VAN DYKE — HAROLD TITUS
DR. HENRY BALDWIN WARD — EL COMANCHO
JAMES OLIVER CURWOOD — MURDO GIBSON
HAROLD T. PULSIFER — THOMAS AMBROSE
BEN EAST — FREDERICK J. LANE

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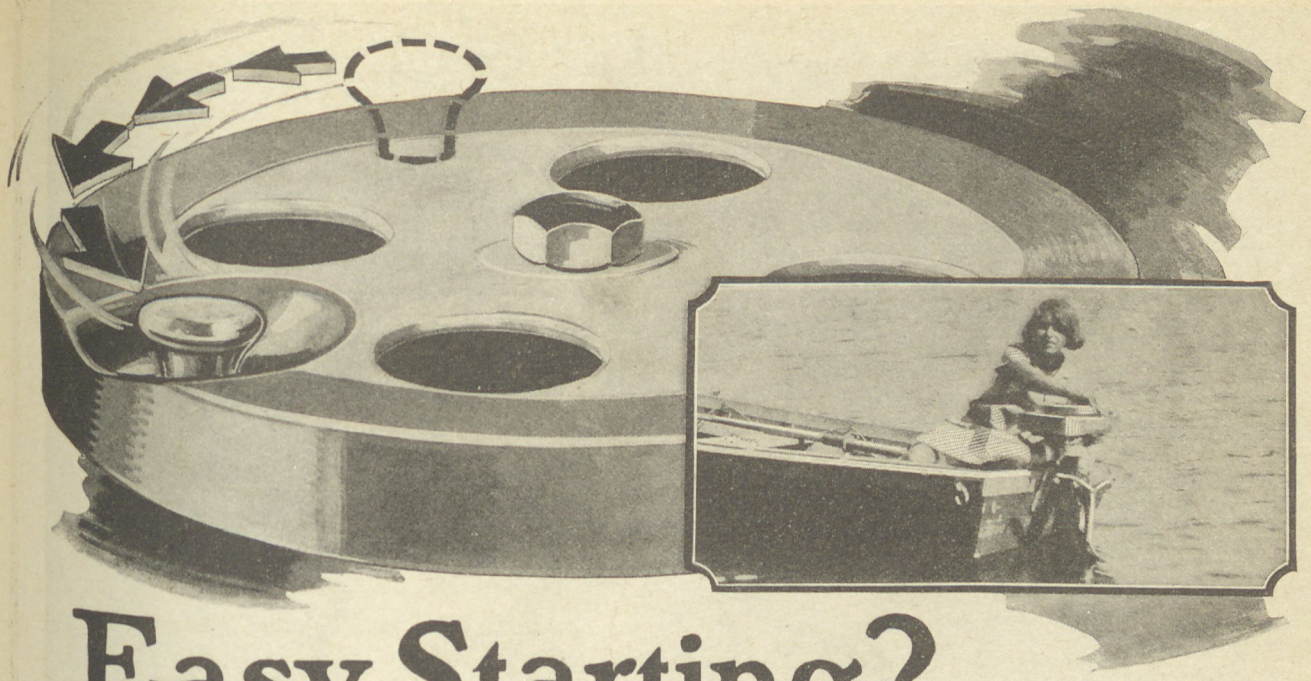


A 3192—P-O

Easy Starting? —How Easy?

THE Super Elto starts with a quarter turn flip of the flywheel. You can start the Elto while sitting down! No need of standing or balancing in the boat, or kneeling. That's how easy the Elto starts!

Never a need to spin the flywheel, or crank *over* compression. The Elto's flywheel movement has nothing to do with generating the spark—merely draws gas into cylinders, and acts as a trigger, through the Atwater Kent Unisparker, releasing the ever-ready intensely hot spark.

Because you do not spin or "crank" the flywheel *over* compression the flywheel "flip" that starts the Elto is merely a movement of wrist and forearm! Not a matter of strength—no manual labor—actually a finger-tip job! Any young girl can do it! No cranking devices required!

Real Marine ignition—Water-proof to the final degree!

The whole ignition system of the Elto, Columbia Hot Shot battery and coil, can be submerged in water for days—with no effect on motor operation. No matter how soaking the rain or spray the Elto always starts—runs!

Be sure of this—that the service and pleasure from your outboard will be in direct proportion to its easy, certain, instant starting!

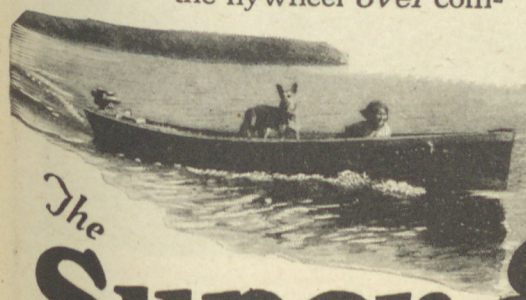
Send for the new Elto catalog!

ELTO OUTBOARD MOTOR CO.
OLE EVINRUDE, President
Dept. 42, Manufacturers Home Bldg.
Milwaukee, Wisconsin

Power AND Light Weight

Slightly over 50 lbs., the Super Elto delivers 4 H.P. (S.A.E. Rating); from 10 to 14 miles per hour—according to boat. Its exclusive features include safe rudder steering, boat and motor control from any part of boat, Propello Pump, (Patented) Folding Rudder, (Patented)—Push button reverse. Full equipment—Columbia Hot Shot waterproof battery, tiller line, 4 control line guides and tool kit furnished without extra charge.

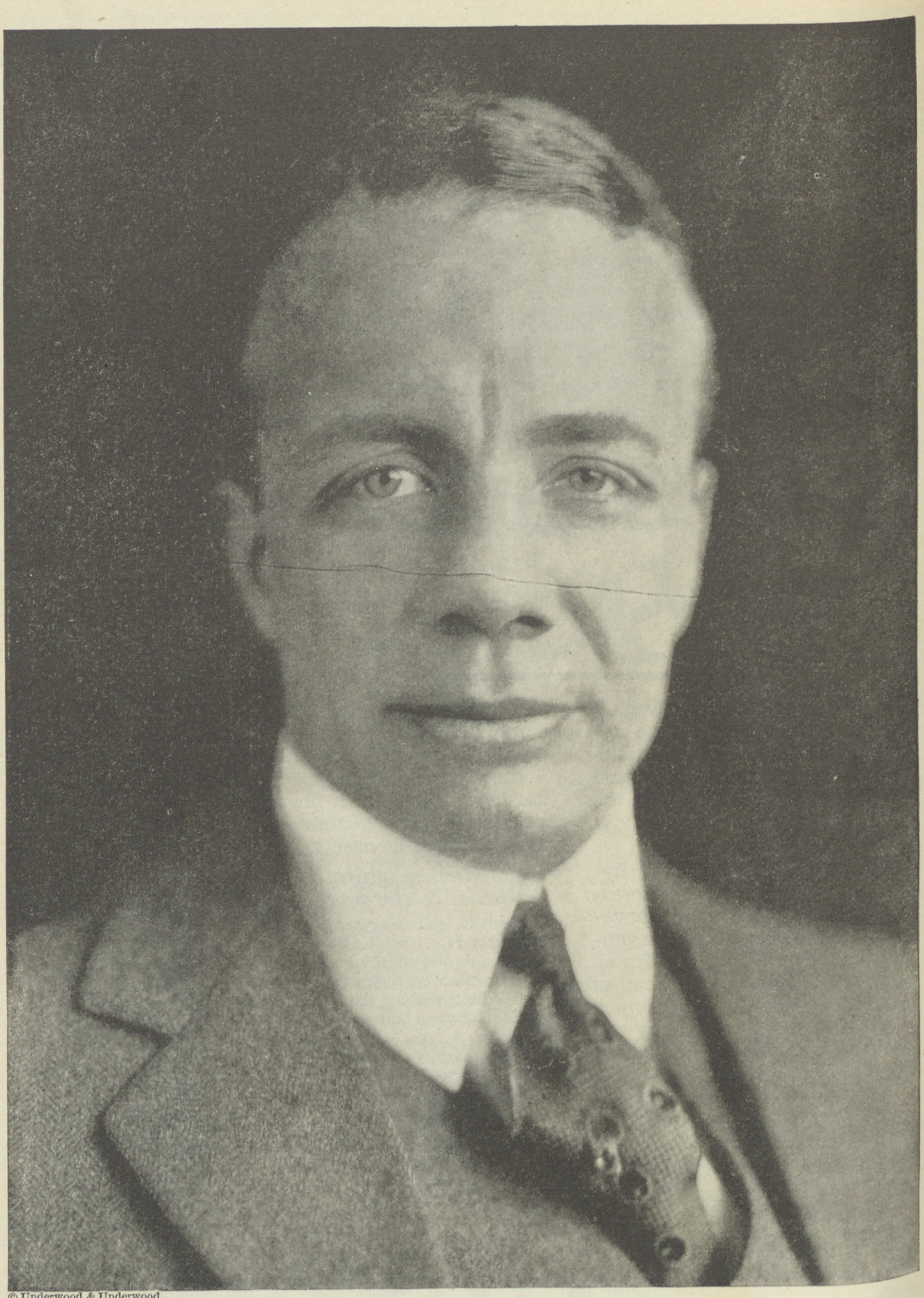
Write for new 1926 Super Elto Catalog—A real guide to Outboard Motor Value.



The Super Elto

"Starts with a quarter turn"

©E. O. M. Co., 1926



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Col. Theodore Roosevelt, who has just returned from one of the most interesting big game expeditions ever made, will be the principal speaker at the Izaak Walton League's Fourth National Convention Banquet. Details of this Convention will be found on page 33.

Vol. 4 No. 9

April Outdoor America 1926

Owned and Published by the Izaak Walton League of America

Robert W. Chambers

gives his views on the most important phase of National conservation. Other writers of national and international fame have expressed opinions on this vitally important subject in this issue of Outdoor America.

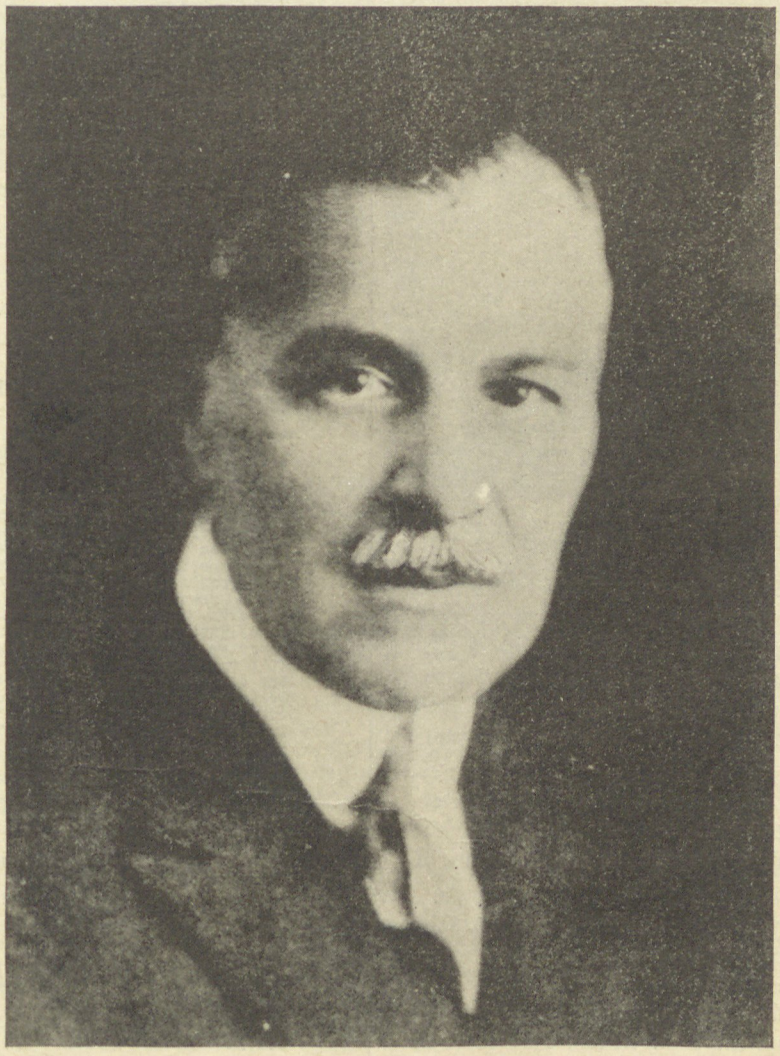
IT seems to me that the most important phase of our conservation policy today concerns pollution of inland and coastal waters.

Ignorance and selfishness of individual and private corporations have turned the continent into a vast sewer. Millions of dollars' worth of food fish are being destroyed every year.

In many rivers and lakes, food fish have been exterminated. For example, take the finest of all food fish; the Atlantic salmon. Today there is scarcely a stream in the United States where the Atlantic salmon return to spawn. Acid and sludge from factories and the filthy waste from dairies have driven our game fish from their immemorial haunts. Oil, from sea-going vessels poisons water fowl and fish and makes a slimy horror of our coasts.

Intelligently protected, our fish and game should furnish us with an inexhaustible supply of cheap food, with excellent and healthful sport through coming generations.

Intelligently protected, our lakes, rivers, and coasts should remain beautiful refuges for our relaxation. The stupid, remorseless, selfishness of individuals and corporations rob us of food—of sport, or relaxation, of rest from our year's toil.



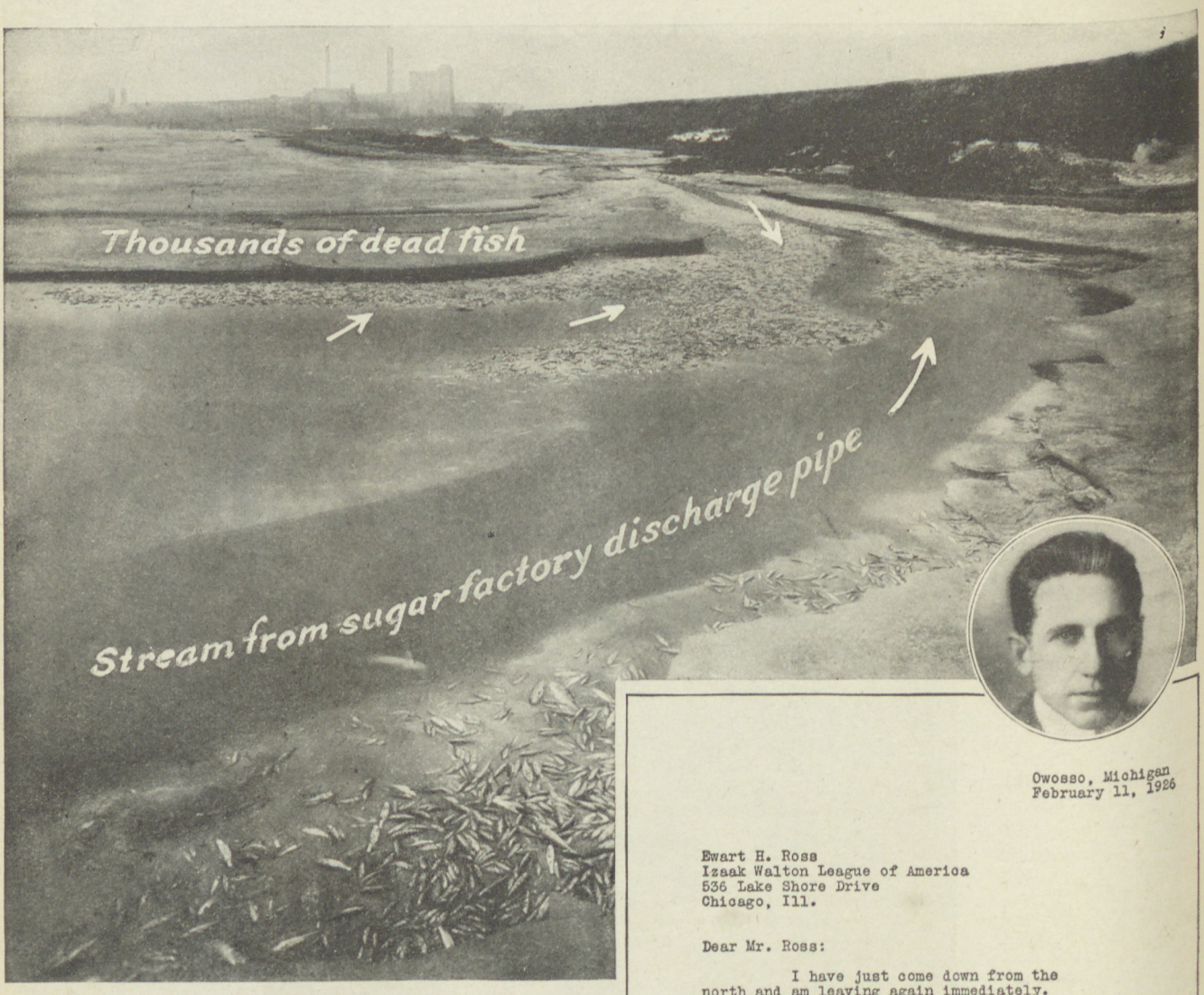
Robert W. Chambers, noted novelist.

These selfish people usually have sufficient means to find the sport and the relaxation which they require, elsewhere, leaving to the average citizen ruined rivers, stinking lakes, desolate, slimy, lifeless coasts. They can go to England, Scotland, Ireland and Wales, for example, where salmon are plenty, where trout abound, where there is plenty of excellent shooting; where abundant game is lawfully sold in the markets.

They can do this, but we have to remain and find our diversions amid the pollution of land and water, which these enemies of our country have ruined for us, for our children, for our children's children.

Until the cowards in Congress are frightened into passing laws, making the pollution of inland and coastal waters a crime, we shall have no relief. I am for state rights, generally, and against interference by the Federal Government, but I know that it is useless for one state to clean up its rivers and lakes when the water courses of another state drain into it. The states can do much, but like the migratory bird matter, the pollution and poisoning of the water courses of this continent is a problem for the Federal Government to solve, before it is too late to solve it at all.

James Oliver Curwood



Owosso, Michigan
February 11, 1926

Ewart H. Ross
Izaak Walton League of America
536 Lake Shore Drive
Chicago, Ill.

Dear Mr. Ross:

I have just come down from the north and am leaving again immediately. Instead of writing the page editorial which you wanted on my opinion as to the most important phase of national conservation, I am sending you a photograph which answers this question without the use of words. This is a scene on the Saginaw River just below a beet-sugar plant and for years we have tried unavailingly to have this tragic situation done away with, but our efforts have been futile because of political influences. Literally thousands of fish may be seen dead in this picture in the trail of the sewage from the sugar factory. And this stream pollution is being allowed to exist in one form or another all over the United States. To clean our inland waters is, in my opinion, the greatest task ahead of us today.

With all best wishes, I am

Sincerely,

James Oliver Curwood

JOC:RM

CAN any man with a drop of sporting blood in his veins look at this dire result of pollution and not see red? And, coupled with this is the sad fact that this is no particularly outstanding example—but TYPICAL of the result of the careless and utterly indifferent attitude being taken by a large majority of Americans toward our waterways.

It is indeed time that some definite and concerted effort be made to correct this condition—not only from the standpoint of better fishing, but from the standpoint of better health.

Children living in the vicinity of this river must bathe in the water. It is impossible to prevent their doing so. If the acid contained in the discharge from this mill is powerful enough to produce the above effect on the fish, what must be its effect on the children and the health of the community generally?

There is but one solution for this problem and that is an aroused public.

The Izaak Walton League has pointed the way to clean streams—it is up to you, personally, to get behind the League and do your share.

EDITOR'S NOTE.

El Comancho

El Comancho's Interest in Conservation Dates Back About Forty-Five Years and His Intimate Knowledge of this Problem Is Shown in His Present Series of Articles on Trees, Written for Outdoor America.

MANKIND can conserve something, and must forget others equally important but beyond his control. Water is one of three vital items which every man uses and must have and yet cannot control in any way.

These three things are air, sunshine, and water. Man cannot conserve either of them.

He can, to some extent, control water after it is deposited on the earth's surface, but not before. Water, therefore, is not so much an object of conservation as it is of control, which means storage, control of flow and the vital item of guaranteeing purity by the arbitrary exclusion of pollution. Pollution is a subject needing so much study from so many angles which concern so many interests, that it is too big a subject to more than comment on, here.

After water, the subject of greatest interest to the largest number of people is the tree. The white man, with his asinine short sightedness and selfish disregard for anyone but himself, has done things to the trees until he is in danger of bringing the wrath of the Gods down on his unsuspecting head, because he has begun to disturb the balance of nature and when that balance is disturbed, the disturber is due to pay and pay mightily before he is through with it.

The part played by vegetation is one of service, for all growing things absorb carbonic acid gas and give off oxygen which all animal life must have to live.

The great volume of the timber which originally grew over a great part of America had much to do with purifying the air, and this was reflected in the almost universal good health of the pioneers, who went into the wilderness and found it clean and equipped with a multitude of things which man could use. Man immediately began to destroy everything he could get his hands on and he has never quit his original job for he is still the most remorseless killer in the world.

But the day of reckoning is in sight, for he has cut nearly all his forests down and if he does not replace them he is due to discover a lot of new diseases that will cut down the human population to a point where it will balance the exterminated forests which formerly produced an abundance of oxygen which in turn was the agent that destroyed the germs that attacked man. Trees, therefore, are closely associated with human health, which is a far-reaching thing and so vital that humanity stands or falls according to its health or the lack of it—yet it never stops to think what a great influence for good the trees are. Trees as such are of interest to every person in so many ways that it is about time humanity at large began to get well enough acquainted with them to treat them with the common decency accorded a neighbor and friend. Instead of doing this we display a perfect mania for destroying trees. We chop them down and burn them for wood. We chop whole forests and saw them into boards to build houses with, knowing all the time that brick, stone, cement, or any one of a dozen things, will make better houses than any kind of lumber ever made anywhere! Then why use lumber for buildings? coal, gas, gasoline or electricity—any one of them, make better fire material than the best wood that ever grew! Then why cut trees to burn?

El Comancho.

We love to chop down thousands of trees each year to use as railroad ties, telephone poles, fence posts, bridges, heavy planking for various purposes, box lumber—a list of things as long as your arm! Why?

Don't you know that steel, sheet metal, angle irons, cement, brick and a lot of other materials and minerals are better for the things we use trees for than the trees themselves are? Then why cut down a fifty-year-old tree and utterly destroy it to produce boards that rot and turn to dust in one man's lifetime? I confess that I can't see the answer! To me, trees are not "just trees" but a valiant nation made up of many related tribes. A people as surely as we are, though rooted to the ground and facing life from a fixed point with a long span of years to work out their destiny in.

Why, then, should we, a tribe of animals so constructed that we can walk on our hind legs, carry things in our front paws and jabber a lot of sounds at each other, have an idea that we are entitled to chop down and kill a defenseless, peace loving species just for the pleasure of using their bones to make things out of? We don't need to do this, therefore necessity does not *(Continued on page 64)*

Robert H. Davis

"Bob" Davis Needs No Introduction to the Readers of Outdoor America. He Is a National Director of the League and Has Given This Movement His Support Since the Early Days.

Robert H. Davis.

MY belief is that the most important phase of national conservation is unity of action. Conservation is not a political issue nor a theory. It is a doctrine of right, a fundamental proposition as essential to the future of this country as freedom, justice and the preservation of the state. The moment conservation develops feuds its lofty purposes die. The discords and arguments of the last few years between abusing groups of conservationists have been destructive to the principle and the progress of that high ideal.

It is rather a curious thing that in our effort to find a refuge, to propagate, to protect, to feed and to widen the range of the dumb we are talking each other blind. Why should there be any question about the motivations behind the doctrine? Why should the different factions spend any of that priceless time, which belongs to the problem, in continual bickering? There are forests to be saved, fish to be spawned, birds to be propagated, rivers to be purified. It isn't this year, or next year; it's twenty years, fifty years, a hundred years from now to which we are dedicating the whole principle of conservation.

I don't see how there can be a "most important phase of national conservation." It is all important. The farmer's son who is fighting unclean neighbors to keep a trout stream pure is just as important as the man who is complaining about pollution of a river. A group of country sportsmen striving to protect the game birds in their neighboring uplands is as much a part of the great scheme as the powerful interests resisting the market hunters on the coast. A kid who has built a bird house so that birds of passage may halt and populate the woodland is not to be slighted. The Senatorial or Congressional groups, the clubs, the organizations striving to avert wanton destruction and maintain the relation between the flora and fauna and fish of this country are actuated by lofty motives. Certain enemies of these ideals and groups opposed to these restrictions consider themselves justified in their antagonism. At best it is going to be a difficult fight, the more so if we fight among ourselves.

My suggestion is that whenever conservation in any form shows any strength let's get together, put it across, add our cumulative influence until we have accomplished the thing we set out to do and then go on to the next case and put that over. You can't breed dead ducks. A fish can be cooked but once, the river belongs where it flows and its pollution is the product of population. If you want to clean your rivers clean the minds of the people who live on their banks. We've got a hard job ahead of us. Let's grapple it as one. Let's have con*servation* not con*versation*.

Get together, gentlemen!

The following is taken from his famous plea for a river, "The Rape of the River," published in the first issue of Outdoor America:

The Rape of the River

SOMETHING like mounds in a graveyard lay on the banks of the pool . . . dust of death from a saw-mill, hope springs eternal in the human breast only to die. All the tears that one could shed were useless in that hallowed glen now null and void. The crystal stream had ceased to flow; the valley lay stricken and a-thirst. The moss had hardened on the granite stone, the birds had flown, the trout had passed into the dust, their gleaming jewels turned to rust. A vast and terrible silence lay brooding and the pool, where I as a boy once came on a herd of deer drinking, was now putrid, and loathsome—and stinking.

Walter Pritchard Eaton

Walter Pritchard Eaton, the Renowned Dramatic Critic and Novelist, Is Essentially an Outdoorsman. His Interest in the Preservation of America's Outdoor Land Is Clearly Shown in This Article.

Walter Pritchard Eaton.

I AM so certain in my own mind what the most important phase of conservation work is, and what it is likely to be for some years, that it constantly amazes me when everybody else doesn't agree with me. To me, the preservation of our existing forests and the reforestation of our waste land, throughout the country, is the big job ahead of us. Moreover, if those forests are saved, and that waste land reforested and protected, many other problems will take care of themselves, such as the flow of streams, the preservation of the remnants of our wild life, perhaps even the restoration of wild life now nearly extinct. But primarily of course the reforestation problem is an economic one, and must be solved on that basis. If, however, sportsmen could see the advantages of reforestation to them as sportsmen as well as citizens, and would give their support, it would be a tremendous help. I regret to say that sportsmen, in the past, have too often thought little about the future, and been concerned too exclusively with their immediate pleasures with rod and gun.

I will not recapitulate figures which are probably familiar to all. Most people know that it now costs far more to build a house than it used to, and consequently that rents are far higher, and most of us do not live so well. But perhaps fewer people realize that in some cases as much as 25% of the increased cost is due to the increased cost of lumber, which, of course, is in turn due to the fact that our supplies are rapidly diminishing; and in many sections of the country, including the most populous regions, lumber once grown on the ground, as it were, now has to be hauled from Oregon and Washington. It will not be many years before that supply, also, gives out.

Yet lumber is a crop which can be grown over and over on the same land, like wheat or corn. If we planted our prairies to wheat and corn, reaped the crop, and then abandoned the land, we would be idiots. Yet that is exactly what we have done with our forest land, only we didn't plant it, we merely reaped it. God planted it, and would have helped to replant it for us, too, had we not always in our cutting been so greedy that we left no seed bearers. As a result even the small State of Massachusetts, for example, has one million acres of waste land, once productive of timber and now productive of nothing at all. Of this million acres, the Commonwealth has rather recently awoke to acquire 100,000, and a bill is now before the General Court to authorize acquiring 150,000 more. There is also a movement in the State to establish town forests, but as yet none of these town forests is of any considerable acreage. Of course, if every town in America would establish a town forest of only 100 acres, it would mean an enormous gain, in the aggregate.

America is now more than 50% urban—that is, more than half our people live in towns of over 2,500 population. In spite of our increase in population, the fact remains that there is actually more land in America today which could be most wisely and profitably employed for forests than there was twenty-five years ago. A majority of our cities could easily be within a half day's motor ride of a large state or national forest, which long before it became productive of lumber would be productive of recreational facilities, wilderness life, clear, steady-flowing streams, and would under proper administration forever remain so. As for the mountain regions, of the East as well as the West, stripped now till in places they look like China, in them is a potential game and fish and wilderness paradise, when we at last awake to see that all such things depend fundamentally upon the forest. The entire Appalachian chain, from Georgia to Katahdin, should be a national forest and park. It should be producing the timber we need in the East, and the health and recreation we need too. Not to mention drinking water and power.

Naturally, a few people are dreaming this dream today. When enough of us dream it, it will be a reality.

George Parker Holden

Dr. Holden Believes in the Creation of an Adequate Sporting Sense—a Sense of Appreciation of the Out-of-doors. His Books and Articles Written for Outdoor America Are Known to All Waltonians

I FEEL that I am not sufficiently familiar with the details of the subject to enable me to speak with any real authority on the subject of "The Most Important Phase of National Conservation."

Concerning state and municipal efforts along game conservation lines, I could speak much more freely. For example, there are the agitated projects of making a state park of the Neversink Valley, of the stocking of public water reservoirs, and of certain parkway streams, such as our Bronx River in New York City.

Complimenting all such efforts, which first must be intelligently directed, there must be adequate game-warden protection against illegal devastation.

With the greater and ever growing complexity of our modern life it has become more acutely desirable than ever, that the simple, sane and wholesome, and healing pursuits of sportsmen should be preserved, not alone for ourselves, but more especially for our children and their children. "Desirable" does not properly depict the situation—the time is here when it is a subject of vital concern to the well-being of the people of this country.

Dr. George Parker Holden.

The most important phase, to my mind, of a steady growth and widening influence of the conservation movement as a whole, is the education of more and more people to the point where this vital necessity for the beneficent contact with unspoiled or rehabilitated nature will grip them hard.

Both for this educational work and in order to concentrate and to make of any practical influence and effect the heart's desire of American devotees of the woods and waters, an organization of national scope and nationally supported, such as the Izaak Walton League, is absolutely essential.

Given, first, the sufficiently aroused interest of enough sportsmen of America, and, secondly, a national organization through which they may forcefully and forcibly express their ideas and wishes, then it logically follows that all the other things will be added in due time. What "all the rest" comprises, almost everybody should know by this time. The A B C of its alphabet is: more national and state parks and game refuges; more reforestation, more intelligent and intensive game stocking of forests, lakes and streams; more efficient protection by wardens against devastation of game by illegal methods, including water pollution and in many cases the shortening of the open season, the deduction of the legal limit, and more restriction in the allowed methods of taking game.

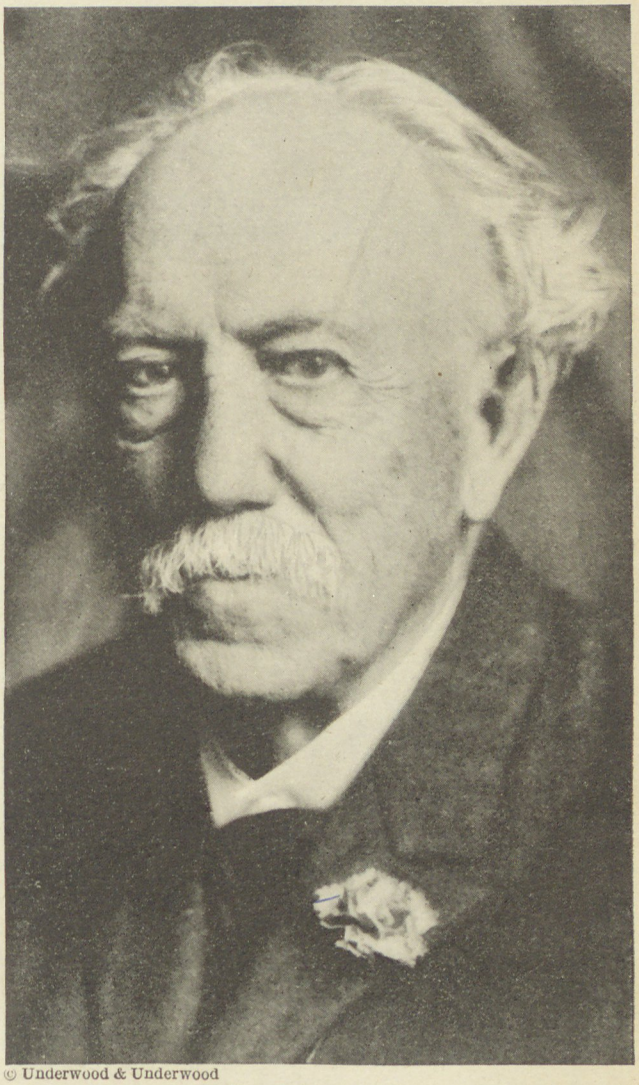
But, behind all this, as already has been intimated, we first must build up an adequate sporting sense, which will procreate and promulgate an adequate *sporting tradition* in this country.

Despite the modesty with which Dr. Holden began his article, he has adequately covered the field of conservation. Ever since the early days of the Izaak Walton League Monthly, as Outdoor America was then known, he has given the League his active support and is vitally interested in the progress of this organization.

Readers of this magazine should realize and appreciate the splendid manner in which these famous writers have helped this League and publication to its present position. Their unselfish efforts should make every member of this League feel ashamed of himself if he has not already brought at least one member to his Chapter. Think it over —what have you done, except join the League?

David Starr Jordan

"More Elbow Room" Is the Title of This Article by One of the World's Most Noted Authorities on the Wild Life Inhabiting America. His "Book of Fishes" Is Considered the Standard Textbook on This Subject Wherever the English Language Is Read. Dr. Jordan Is Also a National Director of the I. W. L. A.



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David Starr Jordan.

CIVILIZATION crowds elbow-room. It destroys forests, dries up springs, turns brooks into desolating torrents, replaces the big mammals by rats and mice and the insect-eating song birds by "English" sparrows. This we cannot help, but we can mitigate it, and if we care a hoot for what our grandchildren think of us, we shall leave some part of nature, unwrecked, for their contemplation. To do this we must get busy today and tomorrow.

When, in 1880, I first came to California I saw limitless herds of the Prong-horn antelope scampering over the hills of what is now Wyoming. In the last thirty years I have crossed the continent some seventy times without ever seeing one. And the Rocky Mountain Goat, one of the finest and most unique of all beasts, has in the meantime almost utterly vanished, and with it the Bighorn sheep. When I was a boy in New York every farmer had in his sleigh at least two buffalo-robes. Yet were it not for a few nature-lovers the American bison would today have joined the Mastodon and the Passenger Pigeon in total extinction.

Forty years ago the Pribilof Islands, just purchased from Russia, sent forth a million or more of mother seals, each with a pup of her own. Reckless slaughter at sea cut the number down to 130,000 in 1897, down in 1910 to 43,000, and the species was saved only by fourteen years of hard work, from 1897 to 1911, ending in the protection treaty of 1911. The herd, thanks to the wise provision, had again risen to 168,000 in 1920, and about 250,000 in 1922.

In a London journal I saw an obituary of a venerable pot hunter whose chief pride was that he had caught 400,000 sky larks, and sold them for a penny a piece in the London markets. Along the Mediterranean my heart has been torn at the sight of the song birds of Europe, in the markets, killed in their winter migrations—each for the thimbleful of flesh its little body may yield. Among these are thrushes, bull finches, blackbirds, redbreasts, beech-finches, warblers, anything bird pirates can shoot or trap.

A single song bird in its day devours thousands or millions of noxious insects, saving to the farmer far more than the cost of protection. The fruit grower pays a high price for the ignorance and carelessness of the "oppressed of every nation," "the beaten men of beaten races," whose very presence here contributes to our own oppression.

Everywhere in our land of Elbow-room we mark a vanishing fauna and flora. A few plants flourish best under oppression. These we call weeds, and we try in vain to exterminate them. They have learned the way of civilization and how to beat it. The vermin which follow man around, rats, mice, insects, and parasitic worms, are sort of animal-weeds equally hard to eradicate.

There are some wild animals which interfere with our business, even though adding to nature's picturesqueness. But I hate to see these go. With Thoreau, "I am glad there are owls, to do our demoniac hooting," and their expression of superwisdom is not wholly assumed. I miss the coyote, an untamed, impossible, dejected dog, without a trace of self consciousness, whose hind legs run faster than his fore legs, thus turning the beast around at intervals, when he sends out an emotional howl which has the merit of seeming to come from a whole pack.

And how about the trout hog! He is always with us. We wouldn't mind the lies he tells of his great catches; we are all prone to this fault, lovable when not too tedious. What we object to in his fables is that they are often founded on fact, as heaps of little withered fishes sometimes testify. The angler goes a-fishing in order to associate with fish—to be out in places where fish live, and no creature lives in choicer surroundings than a trout. Big rivers, little rivers, cataracts or pools, the trout loves clear waters, well aerated, and will have nothing else. Green banks 'mid shady forests is his home. When these are gone the trout will still thrive, in artificial ponds, fed on chopped liver, to be caught by tourists at a dollar a pound. And the angler will wander far afield to search for the "Nameless River," the haunt of the "God of Things that Are."

Harold Titus

Harold Titus' interesting books and short stories vividly portray his love of the great out-of-doors. He knows his subject thoroughly and writes convincingly about it

Harold Titus, Forestry Editor, Outdoor America.

THE most important need of America's out-of-doors today is the guiding hand of science.

That is my opinion founded on a life lived, for the most part, in a country which, within my experience, has passed from a frontier to . . . well, to something else again; and the opinion is strengthened after ten years of writing and talking and praying and hoping and despairing about this matter of saving something of the remnant left us and of bringing back woods and waters that have been bereft of their glories.

Our attempts to salvage a part of all we once possessed, to restore wild life in the places from which it has been driven have been many and varied. They have been enthusiastic, earnest; but, quite generally they have been ineffectual.

We have guessed and experimented blindly. Our operations have, in the majority of cases, been entrusted to office holders instead of competent workers. We have had no adequate program for the country as a whole. We have relied on tradition instead of information. And we have made a sorry mess of things.

Great accomplishments of a local nature have been recorded, true. We have our Biological Survey of the Department of Agriculture, we have our United States Forest Service and before the achievements of those bureaus I am humble, but brave as their efforts are, great as their results have been, they are still drops in the bucket.

Deforestation has gone on blindly from coast to coast. Forest fire has run wild annually. Unwise timber taxation has given the logger a splendid basis on which to justify short-sighted activity. Our game covert has narrowed down, narrowed down; our waters have been polluted, the very nature of rivers and lakes so changed that game fishes are no longer happy in them. And, on top of it all, America has just commenced to learn how to play out doors.

The demands on our wild life resources have increased astonishingly since the close of the World War. Highway development, the cheapening of the automobile has made what was wilderness a decade ago readily accessible. And still we have gone on making gestures toward conservation and only gestures.

Outdoor America—land and water; not paper and ink—is woefully sick. So far, it has been attended by a midwife, a witch-doctor or a quack. We have treated symptoms and even then without intelligence, if it may be said justly that the doctoring of symptoms is done intelligently. We are in need of a physician, a whole staff of physicians, to study, to diagnose, to prescribe treatment and stay with the patient to see that nothing develops which will make the treatment futile.

What do we do with our trout streams? (Always, of course, excluding those few instances where the hand of science is at work) fishing gets bad. We build hatcheries. We raise fry. We dump the fry into the stream and hope for the best. Who built the hatchery? A scientist or a well-meaning but uninformed individual? Are the fry healthy? Are they reared from proper strains? Is it best from all angles to hold fry to the fingerling stage? If so, who says so? A man who has a laboratory and a library at his command and can use both or someone who is guessing and hoping? How's the stream? Is food abundant? Is temperature right? Is the flow constant? It *looks* good, perhaps, but *is* it? Who can tell, with any degree of exactness, except an individual who has biology and zoology and chemistry and entomology and a dozen other branches of science at his command?

What do we do with our cut-over lands? (Always, of course, making a pitifully few exceptions.) We settle it, don't we? We sell it to someone in the hope that he can raise food stuffs or other necessities thereon. But *can* he? And, if so, can he do it at a profit? Is that eighty or yonder section going to support a home where valuable citizens may be reared or is it going to be the altar of dead hopes? Who knows? The man who stripped the timber? Perhaps; but the chances are he is guessing. And if the cut-over is not profitable agricultural land, what happens? Do we put it to work? If so, how? Do we determine with exactness whether it is good for another timber crop or better for recreational purposes or a combination of the two? (Usually, they go together, of course.) Mostly, we guess and spend money on it on a chance and get nowhere. Land that once grew trees and supported game can grow trees again and again support wild life, given a chance . . . and *proper administration.* But proper administration entails the intricacies of land economics and soil chemistry and silviculture and efficient fire protection; in other words, proper administration is scientific administration.

(Continued on page 60)

Cora Johnstone Best

Dr. Best Loves the Out of Doors and Fights for the Preservation of Our Natural Resources. Her Intimate Knowledge of Conservation Is Shown in this Article Which She Has Titled "Conservation with a Plus."

© Todd

Dr. Cora Johnstone Best.

WHILE we are talking on conservation,—I really think many women link up the name Izaak Walton League with nothing but fishing and angle worms and muddy rubber boots. When *I* first heard the name, I too, visioned cunning feather flies, confined and dismally croaking frogs, and minnow pails wherein swarmed or floated a collection of shiners in various stages of gasping inertia or cadaverous stiffness.

When I inquired further I found that the I. W. L. meant more than a fishing and hunting club working to conserve fishing and hunting for their sons and their sons' sons. There was a "PLUS," and the I. W. L. PLUS expanded before my eyes until I visioned a new order of things; a new or renewed Mississippi Valley; a new Illinois River; game refuges; bird sanctuaries; fish preserves;—sportsmen instead of hunters;—I saw all this and more. The vision grew and grew; I saw green trees growing where there were blackened stumps; I saw waste places blossom forth like the gardens of Allah. Then I gasped at the enlarging vision of the PLUS plus the PLUS.

BROTHERS, BROTHERS, wherefore are we seers of visions and dreamers of dreams? Could you, did you vision the limitless stretches that might be, can be, may I say WILL be reached by the I. W. L. May I vision that future when "I. W. L." will be linked in every mind with real CONSERVATION. Oh, yes, I know the League stands for conservation, but I am thinking of the PLUS.

The League purposes to protect and help all manner of game and fish to propagate and increase. They are going to protect—from what? MAN? Adverse things that destroy? Or enemies of ALL kinds?

Last summer I was in northern Minnesota and stopped at a farm house for a meal. I saw no cats about the place and remarked on it. "You don't seem to have a cat here." The farmer looked about and under the porch. "There's an old female under there with seven kittens. Yes, we have plenty of cats. Forty-seven before this last batch came. But they go over there in the spring and don't come back 'till snow flies. The females usually come home to have their kittens, but as soon as the kittens can walk they take them and are off again." The place he called "over there" was a beautifully rolling stretch of heavily timbered land with patches of second year growth here and there.

I took a walk "over there." Wee blue lakes sparkled like gems in amongst the trees. Reed and wild rice tangled shore lines where the dainty birch dipped its green finger tips into the water. Streams with deep mossy undercut banks where the farmer assured me I would find fish in plenty. A whir of wings and a remonstrating cluck as I disturbed a partridge. A tiny rabbit scampered away and "hid" behind a tuft of grass. He was sure he was well hidden. But what's that I hear? I listen, mouth open, eyes staring;—there it is again. Carefully I tip toe through the tangle, making no more noise than a mouse in a cracker bag. Yes, there he is,—wonder of wonders,—the great ivory billed pileated woodpecker! "What a haven of refuge," I murmured. Suddenly across my path there darted the wee rabbit, and after it a vari colored creature. The tiny bunch of fur darted and jumped and ran; a patch of brambles seemed to offer a hiding place, and into it he scrambled. But the relentless yellow and black and white beast jumped in pursuit, and ten claws came down upon the trembling ball. There was a squeal of terror and agony. I grabbed a stick and—got stuck in the brambles while Mrs. Cat bore her squealing meal away.

I stopped in my tracks and groaned, "Oh, God, forty-seven of these useless marauders to prey upon the game birds, the song birds, and every little thing that cannot get away;—forty-seven of them, not counting the seven new ones under the porch."

This very thing is repeated at one farm house after another; perhaps not the same number of cats, but the cats are there—to kill—rats and mice? ROT!

I went on through the woods and came out on the road. Back there in the trees I could hear the pileated woodpecker; a streak of blue lightning crossed my vision as a blue bird flashed by; then I heard the faint distant call of ducks. With unseeing eyes I watched a crow circle high above the trees. I watched him come on down, down,—he was almost on the ground. I found myself looking at a sign nailed to the fence. I started; I stared. "POSITIVELY NO HUNTING ALLOWED, TRESPASSERS WILL BE PROSECUTED." "Let's see, forty-seven and seven makes fifty-four—"

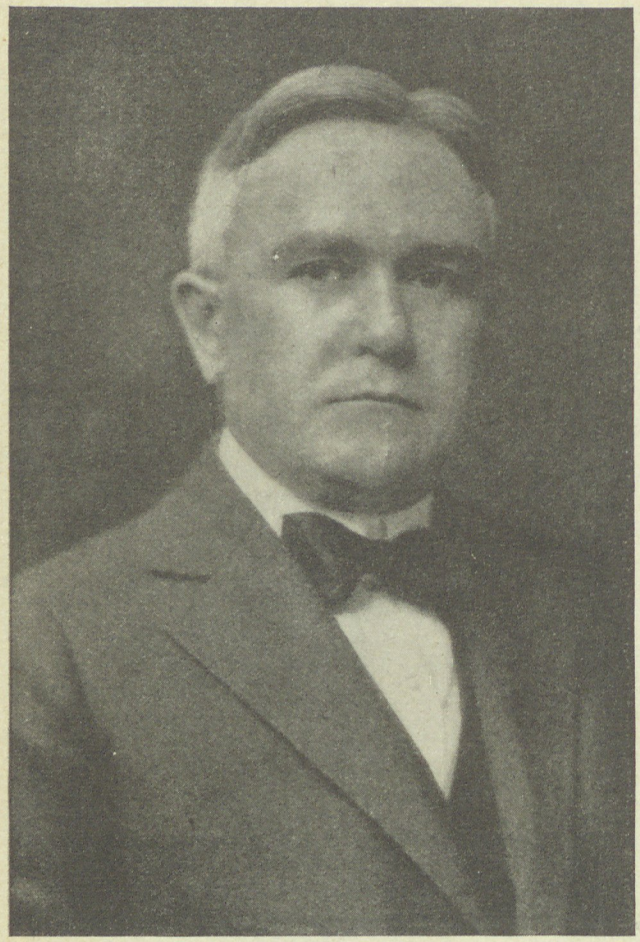
Cats have increased enormously in this country and so have the rats and mice. But the wild birds are NOT increasing. The song birds; the flocks of seed eaters who help us keep down the noxious weeds; the "tree doctors" who are worth their weight in gold; the insect eaters waging incessant war on countless enemies of our crops; the game birds who are not only useful but also furnish us delicious food and sport;—ALL THESE are on the decrease.

The cat is on the increase also in the towns and cities. She is the one carnivorous animal that is surviving and increasing rapidly. She breeds great numbers, is usually protected, and has nothing that preys upon *her*.

I will not go into the history of the cat and trace her down through the ages, but I will say this: Our first knowledge of the cat disclosed the same treacherous thieving marauding creature that she *(Continued on page 65)*

B. F. Wilder

Those who read Outdoor America when it was known as The Izaak Walton League Monthly will remember Mr. Wilder's splendid support.



B. F. Wilder.

ABOUT twenty-five years ago, on the west coast of Florida, there dwelt a cracker who had come near to solving the problem of existence without toil. Before his palm-thatched shack shimmered the blue Gulf, its waters swarming with food; beside him murmured a stream, its limpid flow supplying drink. Other simple wants—aguardiente, tobacco and rough clothing—were relieved from time to time by the smugglers of that vicinity in return for his occasional friendly offices in their behalf.

But man shall not live by fish alone. He must have vegetables as well. So though this man was of singularly indolent habit, he conquered that fleshly failing sufficiently to plant a small field of sweet potatoes.

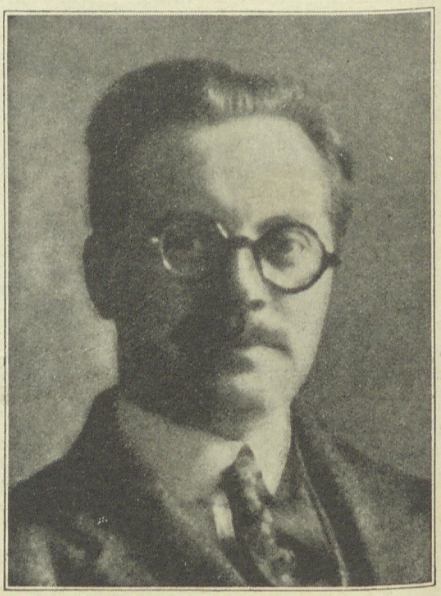
Perhaps they might have been expected from one of his nature, but his methods of cultivation were peculiar. Each season he dug slowly through the patch, took day by day the large potatoes he required and left the culls to sprout. Steadily the yield grew less and the tubers smaller, but though while resting in his hammock he often said that he really ought to clean up and replant, he failed to do so. Repeatedly he regretted that he had not planted the year before, or that he had not made a larger field while he was about it, and in the same breath congratulated himself that with conservation there were yet sufficient for his need. True, the tubers were now not much larger than peanuts. But even so, there was no real need for haste.

What the ultimate fruit of his system of agriculture would have been is impossible to say, for on one of his expeditions from his Eveless Eden, he took unto himself a wife—an angular, energetic lady, with a tongue, who liked potatoes. Now it is true that two can live as cheaply as one, for in most cases they must, but the quantity of food required is greater. He soon found that what had been sufficient was now not enough, and so faced the dismal prospect of going without potatoes or of going to work. For a short time he debated the matter, ably assisted by his wife who, as has been hinted, was something of an orator, and came to the conclusion that even work was preferable to a potato-less existence.

We anglers are now occupying a somewhat similar position. For years we have taken the larger fish and left the immature for seed; for years our catches have grown steadily less, our fish smaller. And now that our ranks have enormously increased, we are compelled to make a choice between restocking or hanging up our rods. It is to be hoped that we shall choose as wisely as did that cracker.

Harold Trowbridge Pulsifer

Mr. Pulsifer, Editor of Outlook, is an ardent Waltonian. A National Director of the League who has done much to help Outdoor America.



Harold T. Pulsifer.

LET'S stop defining conservation in terms of dollars and cents and start defining it in terms of life and living. There will be room for all phases of conservation in the new definition, but we will get the emphasis where it properly belongs. I believe in the Izaak Walton League because it has already made progress in changing the attitude of the Country towards conservation.

The League has fought for the preservation of game, not because game is worth so much a pound but because the pursuit and study of game enables men and women to lead more normal and more spiritually profitable lives.

The League has fought for the forests, not because of the number of board feet which they contain, but because the wild places offer the surest medicine for our tired minds in this mechanical age.

The League has fought for the cleansing of our waters, not because their foulness impedes navigation, but because clean waters are essential to a full life.

Preserve our national heritage in the great outdoors and the commercial side of conservation will take care of itself. What we want is a land that is fit to live in,—a land in which the true values of life are not lost sight of. I take my hat off to the League, for it is working to this end.

Applesauce—A National Dish

There Happened to Be a Blank Page, So It Gave Us an Opportunity to Gratify a Life Long Desire and Break Into Print With a Photograph. Readers Are Advised to Pass Up This Page for Something Interesting

By BUD ROSS

And when the final scorer comes
To mark against your name
He writes not that you won or lost
But how you played the game.
Anon.

TO say that a man hunts or fishes does not imply that he is a sportsman. He may be as far removed from the right to assume the title of sportsman as is mirth and jollity from an income tax return.

There are also conservationists (whose right to the title ends with the first three letters) who make frenzied bids to be classed as sportsmen.

A sportsman is a gentleman and a gentleman is inherently a conservationist (in the true sense), as his code of ethics precludes anything of which he, as a sportsman, cannot be proud.

The success of preserving our natural recreational areas, like the success of peddling peanuts from the whistling roaster, lies in a fundamental knowledge of what is needed to bring about success coupled with that rare commodity, common sense.

Americans are not interested in preserving the out-of-doors. That's not a guess; it's a fact. There are more than one hundred and thirteen millions of people in the United States and if the total membership of all organizations interested in conservation (and I mean all) were put on paper, the aggregate figure would not pass five hundred thousand.

But we like to be spoofed—actually enjoy assimilating applesauce. We do not like to face facts and are content to sit back and let some silver-tongued orator prattle about our "achievements" and the Utopia just over the hill.

If an orator steps out on the platform and tells us that we are a bunch of stuffed shirts who wouldn't be at the meeting unless we were given food and entertainment we would become indignant and check the orator off our list from that time on. We are even a bit miffed if the orator does not spread the applesauce at least seven inches thick. We are not only hurt but convinced that he is a punk entertainer.

How long will conservation organizations, in a position to accomplish something worth while, continue to blat a lot of bromides and stagnate in the saccharine coating of pleasant hokum? How long will it take us to realize that no lasting good can come from sporadic attempts to revolutionize the standards of civilization unless we submit a common sense plan that is superior to the plan in operation.

The Izaak Walton League of America, for example, is not dealing in fish, game, or trees. You do not have to be a fisherman, a hunter, or a woodsman to see that the entire success of this organization depends upon a broader basic vision. The fish, the game, and the trees are only incidental to the main issue.

They act as an incentive to go into the fresh air, thus stimulating interest in an opportunity to enjoy better health. The much hammered "lust to kill' is the natural primitive instinct handed down from the caveman, the pollywog, or the monkey (take your choice), and finds expression in the catching of game fish or shooting game birds or game animals.

We are attempting to preserve, if I am correctly informed (and I have spent two and one-half years acquiring this information), the health and char- *(Continued on page 73)*

Pretty, eh wot? Yours truly associating with the wild waves of Sandusky Bay.

The Angler's Note-Book

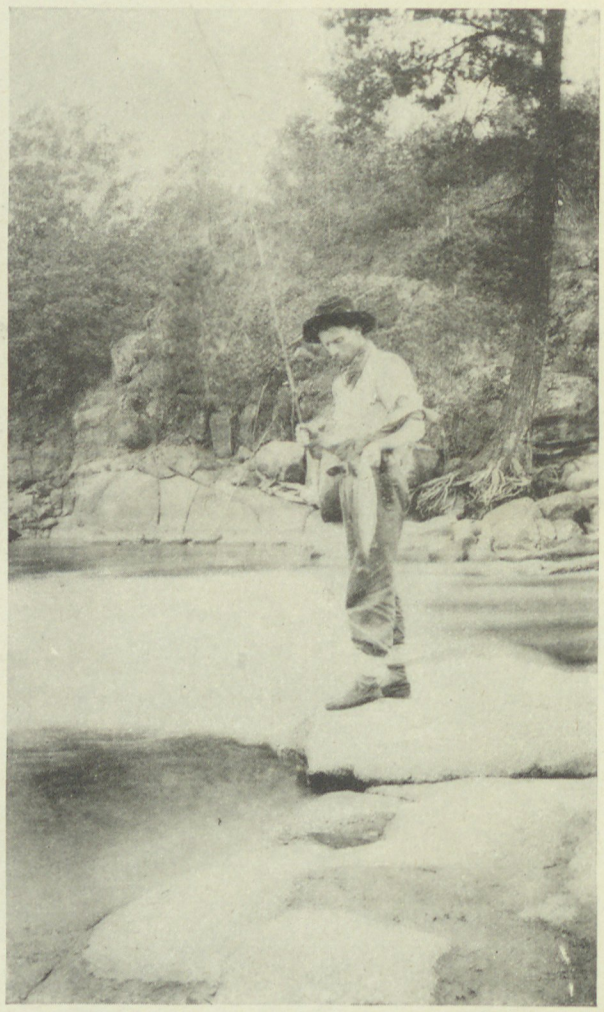
On this page from month to month, Mr. Smith, who is known to the angling fraternity wherever rods and reels are used, will chat entertainingly of his experiences on lake and stream. He warns us that his articles will be illogical and without sequence, but we feel sure our readers will enjoy what he has to say, even though often they may disagree with him. Just take a look at the picture, if that doesn't have a real "been there" atmosphere "we are a geese," as the German said. Just to introduce himself he starts out by narrating the story of that rainbow's capture.

By O. WARREN SMITH

SOME years ago, before the builders had erected the power-dam across the Peshtigo river, at High Falls, Marinette County, Wisconsin, wife and I were on a wilderness hike. Actually, with everything on our backs, were trailing up the left bank of the said river. A fool stunt and all, I grant, but we had lots o' fun and sure got the fish. By the way, every time I think of that dam there where the white ribbons of water used to drape the red rocks, I get mad. But worse, there is a dam now at Caldron Falls, eight miles above, and soon Roaring Rapids will be a thing of the past. But let all that pass.

One night we went into camp at Twin Falls, and I set about getting some fish for supper; but do my best not a trout could I rise, much less hook. Then, as we were dependent largely upon the river for meat, I caught some grasshoppers and went after chubs in the shallow pools along shore, for enough chubs will stave off hunger as well as more worthy fish. In short order I had a nice basket of the soft fellows, if one can call a catch of that ilk, "nice." Returning to camp, I paused at the upper end of a long shoot, and let out my line full length, 150 feet, just for sport. Imagine my vexation when I snagged, or thought I snagged, at the very extremity of my line. No chance to go down and unhook, for the water was deep enough to drink standing up and swift enough to carry a man off his feet. There seemed nothing for it but to risk breaking, though I had but a single "spare" with me. Settling back against the line with all the strength I dared, it gave a little, then a little more, and away down there a great rainbow went into the air in a spectacular leap that sent my heart into my throat and my blood bounding. It was some minutes before I realized the fish was actually on my line, actually on my own hook.

Now I am not going to tell the story. I have told it many times. (Wife says never twice alike.) It was almost twenty years ago it happened and it is not to be wondered at if the story is a bit different. I know the story has not lost any of its charm with the passing of the years. I can still feel the electric thrill of the rod as it bent and swayed under the terrific rushes of the fish. Again and again I would have him half way home, when he would throw himself into the current and rip yard after yard of painfully won line from the reel. Actually I fought that fish for half an hour before he was weary enough to net, and then I had no net, for one does not use a net in landing chubs. I howled like the original inhabitants of that country when about to go on the war-path. Wife showed up but without the landing-net and it was some time before she could locate it, and when she did, the fish had revived sufficiently to give me another fight before he surrendered. We did not dine on chubs! I'll say we didn't! Instead we ate and ate until we had enough and more than enough.



O. Warren Smith, with a couple of white water beauties. Readers of Outdoor America are fortunate in being able to enlist his pen.

Thus was I inducted on the rainbow trail, and from that day to this I have been a great admirer of this bucking broncho of the foam. There is no fly fish quite equalling him, not even the small-mouth of northern rivers. The rainbow is the most spectacular fighter of the salmon family, and the best fly-fish of the trouts. There is seldom excuse for employing anything but flies in fishing him, though he does love 'hoppergrasses in midsummer. In grasshopper fishing, when resorted to, I would not vary the tackle from that used for fly-fishing, save that I would dispense with the long leader, employing one not to exceed three feet, or a long snelled hook without leader. Always fish 'hoppers naturally, which is surface fishing of course. Some time I may tell you about dry-fly 'hopper fishing.

As to weight of the rod much will depend upon the character of the water. Where fish are apt to run large, two pounds and upwards, I'd say eschew the lighter rods. Never wise to employ a 2½ ounce split-bamboo in rainbow fishing. A 6 oz. rod is about right, and for *(Continued on page 43)*

Moon Lake Wild Life Refuge

The Wisconsin Division, Active in the Interests of Conservation, Has Established a Preserve of Its Own.

By HAROLD W. PRIPPS

ONE of the most effective ways to strengthen a Local Chapter of the League is to give it some conservation project on which to concentrate its efforts. Haskell Noyes realized this when he was elected President of the Wisconsin Division in 1924. Accordingly, he sent out a series of four letters to all Local Chapters urging the advisability of as many Chapters as possible establishing Wild Life Refuges or Forest Reserves.

The necessity for protected areas such as these was apparent to conservationists because of the fast disappearing forest growth in Wisconsin with its attendant depletion of wild life. The duty of providing sanctuaries for wild life is one that falls primarily on the State. Unfortunately, however, Wisconsin has not as yet seen the light as has Pennsylvania and some of the other Eastern States, so the duty devolved on organizations such as ours.

The committee rests. From left to right Joseph V. Quarles, Clarence J. Allen, Henry J. Nunnemacher and Haskell Noyes.

Mr. Noyes felt that if the plan was carried out successfully, local people would soon see the benefits which a community could derive from a Refuge or a Forest Reserve and would demand that their legislators take action to have the State go in for conservation projects of this kind on a larger scale.

Wisconsin Waltonians were gratified to learn that their President's letters had met with an active response. About four or five Chapters notably, Antigo, Drummond, and River Falls soon announced that they had Wild Life Refuge projects under way. The Stevens Point Chapter was offered a large tract of land by a lumber company but ran into obstacles and was obliged, at least temporarily, to pass up a large gift. This project may, however, be revived.

In the fall of 1925, Clarence J. Allen, President of the Wild Life Protective Association became interested in the Milwaukee Chapter's efforts to establish a Wild Life Refuge. The Wild Life Protective Association owned a ten acre arboretum in Milwaukee County. This it offered to sell and turn over the proceeds to the Milwaukee Chapter of the Izaak Walton League to assist it in establishing a Wild Life Refuge, if a more favorable location could be found in the country.

A Committee appointed by President Jos. V. Quarles of the Milwaukee Chapter covered all of Milwaukee County but could find no tract of land available.

About this time the Kettle Morain District of Eastern Wisconsin was suggested to the Committee as a favorable possibility. This is an interesting series of glacial hog backs and kettle holes extending south from Green Bay through Wisconsin into Illinois.

The Committee consisting of J. V. Quarles, Haskell Noyes, F. W. Luening, Frank Schmitt, A. L. Hansen, August C. O. Peter, Russell Watson, Henry J. Nunnemacher, Charles H. Hall, Sherman Brown and Clarence J. Allen, made three trips into the Kettle Morain District and finally decided on the Moon Lake property.

The Committee was enthusiastic in its reports of the country and well it might be. Here was an opportunity to get a real bit of wilderness including a lake and about one thousand acres of land.

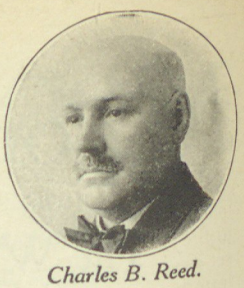
Moon Lake is in South Eastern Fond du Lac County, within easy driving distance from Milwaukee. It is South of Long Lake and across a highway lies another body of water, Forest Lake. There are still other lakes close by. The shores of Moon Lake are reed and rice-covered, thus providing excellent feeding and breeding places for aquatic bird life. The headwaters of the Milwaukee River flow into the lake from the North and out at the South. Both inlet and outlet are heavily grown to brush—excellent cover for small furred creatures and birds. Tamarack swamps extend Northward and Southward and on the surrounding hills is good timber. Upland birds and the larger wilderness creatures could find food and shelter there.

Here, then, was an ideal location for a Wild Life Refuge and the Committee proceeded to take steps to make it a reality. After another trip options were secured, some only after a great deal of effort and persuasion. The matter was then presented to the Milwaukee Chapter at its October meeting and it voted unanimously to authorize the Committee to take the necessary steps to raise approximately Forty Thousand Dollars to buy the land.

Quite naturally difficulties presented themselves as the project developed, but these were all met by the Committee. The Milwaukee Chapter was indeed fortunate in having such a fine group of unselfish capable workers interesting themselves in such a worthy project.

It was found necessary to incorporate the Milwaukee Chapter so that it could hold title to the land. There were a half dozen or more owners to deal with and the options secured expired at various dates, the last one being February Twenty-Eighth. It was necessary to raise over Fifteen Thousand Dollars in cash to take up these options and to the credit of the Committee let it be said that they accomplished it after a great effort. *(Con'td on page 60)*

The Tragedy of Twin-Rock Pool



Charles B. Reed.

A Corking Good Fishing Story by a Man Whose Books and Short Stories of the Out-of-Doors Are Hard to Beat

By DR. CHARLES B. REED

Author of "The Four Way Lodge" and "The Curse of Cahawba."

Sketch by Earl H. Reed

"DID you ever fish the Kagawanna?" asked the man in the smoker, as the train entered the beautiful canyon of that river.

"Did I ever fish the Kagawanna?" I repeated with a rising inflection, for the river had been one of my favorite haunts in the old days. "Indeed I have, many times, though I've been back only once since the railroad went through."

"I don't suppose you happened to meet a man named Winthrop on any of your trips? He used to visit the stream quite regularly."

Now nobody mentions Winthrop unless there is a story in his mind and so I led him on with, "Doc Winthrop, of Grand Rapids? Surely. He was not a doctor though. That was a sort of distinguishing and complimentary epithet which he wore, off yonder before Prohibition came in. You see, at that time he was in the habit of prescribing for his friends and buying the medicine. Indeed, it has been hinted that he was the inventor of the 'Flapper Flasks,' but I never believed it. The idea is too paltry for one of his soaring fancy. Up here on the North Shore, though, Doc Winthrop was a well known, I might say, historic character in those wonderful early days. Yes, I met him often and we became well acquainted through our common interests. He was the best fly caster I ever saw. Yes, indeed. I surely did know Doc." Then I smiled inwardly as I recalled the many admirable jests we had together,—mostly at his expense, it seemed to me. The subject was pleasant and I continued, "He is still in Grand Rapids. I see him occasionally but not as often as I would like. He is a fluent talker and the originality of his ideas makes him rarely entertaining. He loves argument, however, extravagantly. Loves it for its own sake and frequently he will dispute the most obvious truism for what appears to be the sheer joy of debate. Yes, fluent is the word and also the word is fluent with Winthrop."

"Your description fits like a blister," admitted the man. Winthrop was a fluent talker all right. He was fluent in profanity, too. I think I never met a person whose profane vocabulary was so various, so comprehensive and so facile. It was a gift. What in another would be a profuse flow of oaths, corresponding to a violent agitation of the emotions, would be for him merely an aside—a casual, sotto voce recognition of some trivial event. He could curse at his best, of course, only in English, but on the other hand English is the most conspicuous and superlative of languages in the art of blasphemy and ye gods! what a command he had! He could call down anathemas in four dimensional style which would embrace luridly every possible aspect of his subject in one all consuming flame. The effect was not ribald, vulgar, nor even irreverent in our friend, but apparently a natural and spontaneous outpouring of his exuberant feeling. Freud would have but little grip on Winthrop, for he had no internal inhibitions, nor external, either, in certain moods,—at least until the Volstead era.

"His fishing, too, was high art," I rejoined, "though wholly acquired. Just as instinctive as his profanity, apparently, but not so inherent, if one can make such a discrimination. For fine and far off casting, he certainly was a wonder. I have seen him put a fly under an alder branch sixty feet away and only four inches above the water. He would do this, too, when an inch higher would snag his hook and an inch lower would tangle his line or leader on a twig which was ten feet nearer to him. He was cranky about his fishing, though. I guess most fly casters are that way. For instance, he always preferred to wade a stream when he whipped it. Never would use a canoe even when it was more convenient and desirable. At the same time he insisted on taking a canoe on every trip and proclaimed loudly that he was fond of canoeing. I was persuaded his penchant for wading was just a whim until I saw his canoe. Then I understood. Winthrop had no judgment in canoes and consequently no confidence in them. Whenever he bought a canoe he got stung, but no one could advise him. His mind was bound and sealed up on that point. He was a fine fellow, though, and when he wasn't telling you a lot of his fool notions about canoes, a most delightful companion."

"He was all that and more," said the man. "I never saw him but the one time when we both happened to be staying at Jake's place near the mouth of the Kagawanna. Still I shall never forget that fortnight. Do you remember Jake, the half-breed, who lived on a timber claim up here? The timber claim, of course, was a mere pretext and subterfuge, for Jake really lived, thrived and grew fat on the heart's blood of the anglers who visited the Kagawanna. Jake was a regular vampire at heart, but his blood sucking instinct was often checked or thwarted by an inordinate laziness. This was all that saved his guests. Nobody ever went back to him a second time save Doc, whose adoration of the river was not to be denied. In a way Doc was rather fond of Jake, just as you say he was of canoes, theoretically and without reason. He knew nothing about Jake and had nothing in common with him except the landscape. Jake was a part of the landscape which Doc loved and so he accepted Jake as one of the ordeals that had to be

A RENDEZVOUS

By K. B. MATTHEWS

Where the blue green pines with whispered sobs
To the shadows loan their blue,
And the rusty leaves of the wintergreen
Hide its jewels of scarlet hue,
Where the emerald streams with laughter free
Crystals of absinthe fling,
To the banks where the tag alder crouches,
I have an engagement with spring.

Where the soft breath of the arbutus wafts
O'er hills where the violets nod,
And the marigold splashes gold about
In prodigal stains on the sod,
Where the wild cherry trees in bridal dress
Caressed by the south winds swing,
And the trillium nods its waxen head
I have an engagement with spring.

borne for the sake of a greater good like medicine. He did it thoroughly, too, as you know he would. He even praised Jake's cooking and some of his personal qualities, though the only thing in either of them that was exceptional was their utter hopelessness.

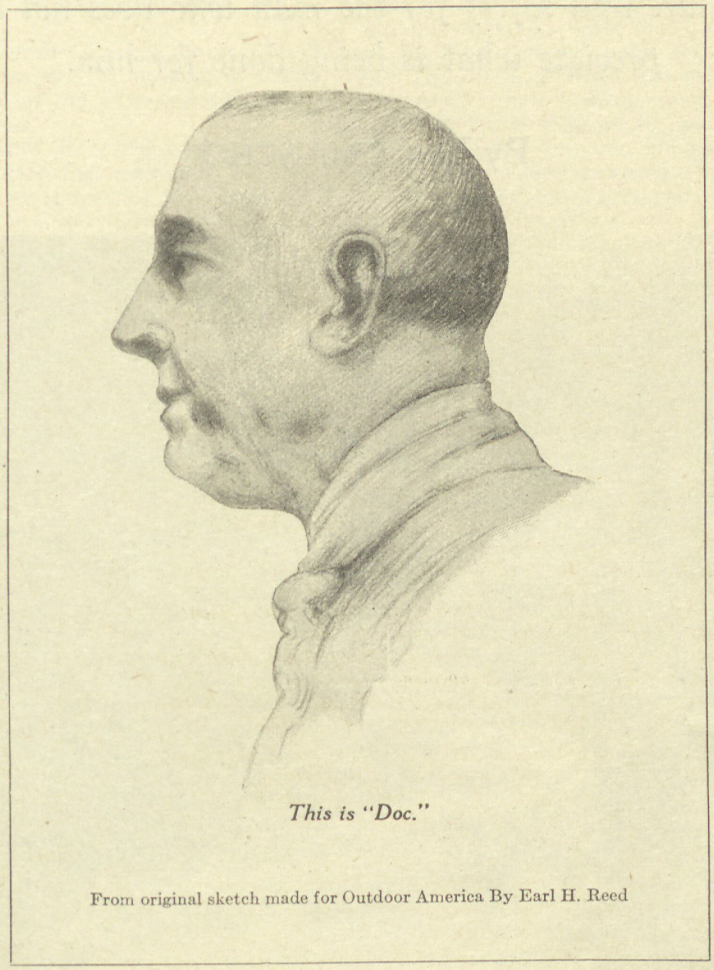
"Doc had visited Jake, as I remember, every season for many years. The only one, as I say, who ever went back to the place. The time I met him, however, has always been set aside in my mind as the summer of the big trout. Every minute of my stay was enjoyable and largely on account of our friend. I took a huge delight in him as a man, as a fisherman, as a conversationalist and yes, as a high and lofty cusser. I have never seen his equal in fishing or in cussing and yet on this particular occasion he met with complete discomfiture in both his specialties. Let's have a drink while I tell you about it. You can't get any Bourbon like this in the States now," he remarked, handing me his flask. "I wish Doc could sit in with us here.

"You see, this railroad had just come through and the Kagawanna had been whipped up and down until trout were hard to find; extraordinarily hard. Nevertheless Doc went up the river every day as he had for years and also, as he had for years, he would come back with a full creel. Caught in the most unlikely places, too. Often I accompanied him, less to use my own rod than to admire his skillful work. Watson and Holmes you know.

"Well, as it seems that for a number of years as he traveled to and from the upper waters, Doc had passed, with scant or no attention, a certain large pool whose sullen depths and lack of cover gave no promise of fish. Still, little by little, the spot bit into his consciousness and this year that I speak of, he some way got into the habit of observing the conditions rather closely as he passed and finally of stopping for a moment's study. The Kagawanna, as you recall, comes down in a series of ponds and rapids and shallows until about a mile above Jake's place it pours over a low shelf of rock into a wide sandy bottomed basin. At the surface, the basin is a light amber, but the color rapidly deepens to a tarry black. Deepens until in some places there is apparently no bottom whatever.

"By frequent observation under varying lights, the opinion gradually formed that there were two huge boulders set tandem near the middle of the pool. The tops of these boulders seemed to be a foot or so under the surface and possible six feet apart. The second one was possibly a trifle higher and surely much bulkier than its fellow, and Winthrop concluded that the wide crevice between those two pillars would be an ideal retreat for trout and also for trout of unusual size on account of the abundance of food flowing by.

"Unhappily, the close growing forest gave no room for a back cast. Even a tree top cast was precluded by the overarching trees, while the depth of the pool made wading impossible. Inasmuch as Doc's antipathy for canoes prevented him from using one even in an emergency like the present, his problem became complicated. However, the more the difficulties multiplied, the more Winthrop's interest became engaged and one evening as he inspected the conditions with his usual concentration the idea suddenly occurred that those two deep set rocks must form a natural barrier to the current which would of necessity throw up a sand bar behind them. This bar, if it existed, might make it possible to approach within casting distance of the rocks. It seemed so simple that Doc was disgusted at his slowness of comprehension.



This is "Doc."

From original sketch made for Outdoor America By Earl H. Reed

"The next morning, having arranged an attractive cast, our friend entered the river where it was comparatively shallow and moved up stream with the rocky landmarks in exact line with a big hemlock which he had set apart the day before. At the lower end of the pool proper the angler stepped at once into water which became deeper and deeper. Cautiously he tried the bottom with his foot and crept forward until the water came to his shoulders. He was about to abandon the attempt, since it required all his strength to hold place against the quiet urge of the current. He tried one more step and felt, or thought he felt, the bottom slope upward. Hopefully he advanced and hopefully the river fell until, some twenty yards from the rocks, the stream was waist deep with what appeared to be a sharp descent just ahead. Further progress being hazardous, Doc loosened his cast and put the leader to soak while he studied the situation. The problem and the expert were face to face and I sat on the bank, tense with expectancy.

"Having softened the gut sufficiently, Doc pulled out a few yards of line and cast off in lengthening loops to the right and left until he was persuaded the fly would about reach the rocks. Now he cast more methodically, but still laterally, though with each recurrent bend of the rod the fly stole nearer to the darksome cavern between the boulders. It was a beautiful technic. Like a bird dog quartering buckwheat.

"To the spectator it seemed that the angler had no thought of fish, as his fly danced smoothly here and there like a butterfly on a meadow, or drifted dreamily into space like questing moth. In due time the fly fell within several feet of the rocks and again much closer. There was no response. Once more it fell almost opposite the cleft and somewhat to one side. It fell in vain, but as the lure came back there was a wide swirl on the surface and the "waters boiled like a pot." Doc's hand and rod twitched nervously at that magnificent whirlpool and my own heart fluttered with anxiety. There was not a sound, but the air was electric as the next cast flew off to the extreme right and another to the left, until finally, by an effortless action of the wrist, the fly dropped daintily over the still agitated water. Instantly it was seized by a mighty trout. The light rod bent like a buggy whip. I wish I could tell you that the fish was hooked, but in that case I would have no story. As sometimes happens the *(Continued on page 78)*

The Way of the Tree People

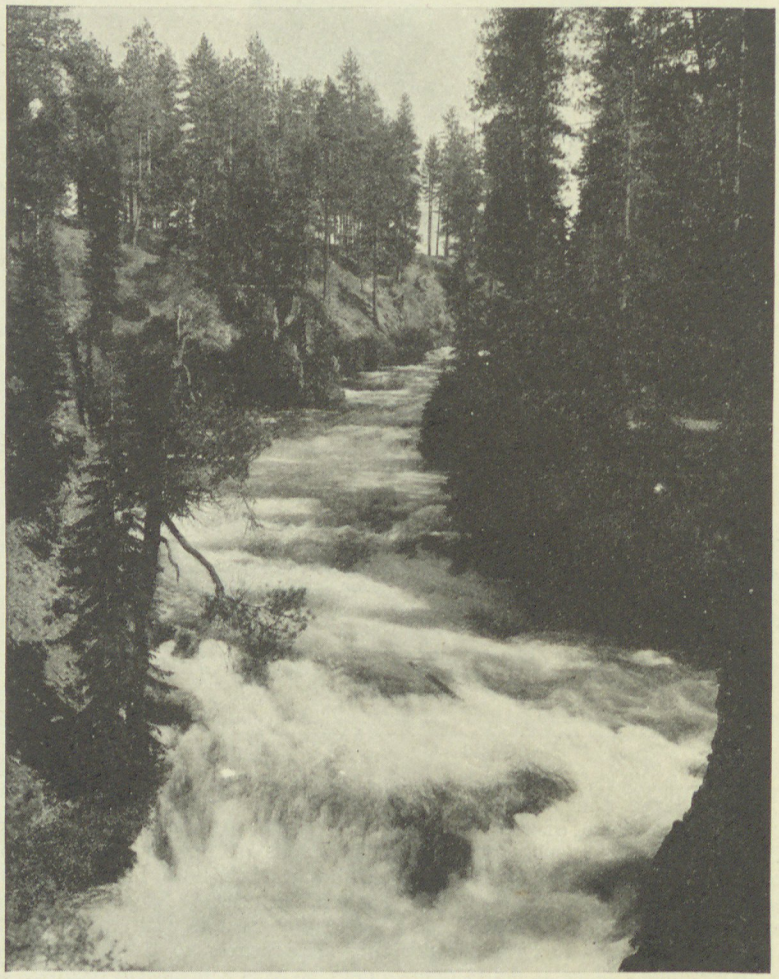
How and why the trees, the big storms from the west, and the great mountain ranges are working together day and night to produce comfort, pleasure and safety for the man who does not appreciate what is being done for him.

By EL COMANCHO

IN this, the fourth of the stories of the Tree People, I will take you further into the details of daily life as the Tree People live it.

I shall tell you how and why the trees, the big storms from the west and the great mountain ranges are all working together day and night all the time to produce comfort, pleasure and safety for man who does not appreciate what is being done for him.

The Olympic Mountains are a group of peaks and not a continuous chain, so they do not influence the big storm except in a local way which is to cause precipitation from such air as may come in contact with them as the storm passes, and, being the first cooling influence encountered, they take from the storm the greatest percent of moisture. Therefore the wettest spot on the North American continent is the West side of the Olympic range of mountains, a strip of country less than 100 miles long by twenty-five miles wide running North from Grays Harbor to Cape Flattery and East from the ocean beach to the Summits of the Olympics. *Over this small territory the annual rainfall will average pretty close to 100 inches and over exactly the same territory is spread the heaviest, thickest coniferous forest in the world and it contains the largest individual trees known of the species growing here.*



"Usually clear water running bank full."

Directly Eastward some 70 miles to 100 miles in an air line is the summit of the Cascades with exactly the same conditions in force. The trees here are as thick and as large as they are on the west side of the Olympics because the rainfall just north and just south of the Olympics is the same in the Cascades as it is in the other range. This *is the forest that grows only four feet above the glacial desert underlying it and in primary, rock-derived soil as noted in Story number three.*

Now note, that at Port Townsend, *on the Northeast* side of the Olympic range, the annual rainfall from 1860 to 1908 ran from 15 inches to 27 inches! *Just over the range on the West side it averages around 100 inches!*

The annual average rainfall at Index (*West of the Cascades*) from 1894 to 1905 ran about *93 inches* and at Monte Christo, a few miles North on the same side, it ran *118 inches.*

Just across the range, *on the east side,* is the town of Wenatchee and here the average annual rainfall from 1899 to 1908 *was 14 inches!* The percent is the same on east and west sides of both ranges of mountains.

That's what the mountains do to the big storm, take 100 inches of water annually on the West side as against 14 inches on the East side and the same proportions continue at every mountain range the storm encounters because of the condensing effect of the cool summits which is first felt in the direction the storm approaches from, namely, the West.

Remember that the forest areas exactly cover the areas of precipitation and that the forests thin away North and South of the storm center and cease where the rainfall ceases at the edge of the storm covered circle, regardless of good or bad soil, and almost regardless of temperature, for the trees climb up to the very summits on the *West* sides of the mountain ranges and they grow only scattering, or not at all, on the *East* sides and on Eastward across the plains between, or East of, the mountain ranges, until we reach the *West* edge of the *next* area of heavy precipitation *to Westward of the next Easterly mountain range.* Also the species changes to Yellow Pine on the East side.

In a nutshell, trees grow where rain falls copiously and

do not grow where rain does not fall unless moisture be supplied by river or artificial means, in which case the trees hug the water and do not spread away from it and these conditions always have been and always will be so long as continental contours remain unchanged.

The big storm then forests the *West* sides of all mountain ranges in its path and leaves the *East* sides barren (or nearly so) of timber—why? Because the range condenses the moisture and at the same time deflects the forward horizontal rush of air, shooting it upward into 10,000 foot to 15,000 foot levels. Nearly all condensation of moisture takes place *below 8,000 feet;* plain, isn't it, why no rain falls on the *East* side? Logical, too, when you get it, isn't it?

Having passed all the mountains the big storm sweeps on East across Montana, Dakota and Minnesota, to finally encounter the cooling influence of the wide water evaporation surfaces of the Great Lakes.

As the storm travels Eastward it crowds down toward the earth again from the 12,000 foot elevation, that the Rockies forced it up to, so when it reaches Minnesota and the country to Westward of the Great Lakes it is down to the level where the moisture can be condensed by the cool influence of the Great Lakes again, and it rains or snows on the west side of the lakes for the same reason that it does the same thing west of the mountains.

You remember that the great White Pine forests of the "North Woods" stood just here, do you not? They were there at the *Westerly* margin of the lakes because condensation from the big storm watered them just as it waters the Western mountain slopes and, if man were to move out of the area of the old White Pine forest and leave it for 100 years, he would find just such another thickly covered Pine forest area, 100 years old, at the end of the period because nature is still furnishing the water to grow it just as it always has and always will.

It is absolutely useless for man to plant trees anywhere outside of the different belts of storm influence unless he supplies the water for each individual tree by artificial means, for water, and lots of it, is life to trees and they will die without it.

It is useless to set aside forest reserves within the timber belts, as I've shown them to exist, unless *fire is absolutely kept out,* and further, unless trees are treated as a *crop to be harvested when ripe, without injury to the young and coming crop,* and even then we should plant 60 trees for each one we cut down to cover the hazard of tree life. Sixty to one being nature's ratio of sacrifice to obtain one finished specimen.

The big thing we *can* do is to turn our attention to the *snow fields* of these high mountain ranges and there care for the bountiful supply of water that the big storms bring and deposit high up in the mountains in the original cold storage plants of the world, for *there* is the key to unlock millions of acres of those lands to Eastward of the mountains where the rains and snows do not come and which are, consequently, barren plains, but barren only because we let them remain so by our own short-sighted foolishness regardless of their tree producing capacity, as I shall show you in the following story of the snows and the mountain-born rivers that we let go to waste; a story that you will find mighty new and interesting, for it comes from the silent places where men seldom go.

I have taken the big storm track as a concrete instance, and the most important one, showing how the forests are here because of the water supply. This covers the country West of the Missouri-Mississippi rivers from the Canadian line South to the Panhandle of Texas. Other storm tracks work out the same and are relatively important.

Do not think, however, that we get water from no other place than the big storm because we have several other lesser storm tracks on the continent all acting the same way.

These all originate in the Gulf of Mexico and sweep in great circles to the North and East and join the path of the big storm on, or East of, the Great Lakes.

Storms following these tracks cool gradually as they come northward instead of cooling against snow capped mountains and therefore do not distribute their waters in spots, as the big storm does, but spread it over the entire East from East Texas to the country south of the Great Lakes.

Note now that this area was the home of the original *hardwood forests* of the continent, also of the Yellow Pine and Cypress down near the Gulf Coast.

Note again that the heaviest rainfall in this area extended inland a few miles from the Gulf Coast and does yet; also note that the Yellow Pine and *(Continued on page 87)*

The west coast conifers leave very shallow roots

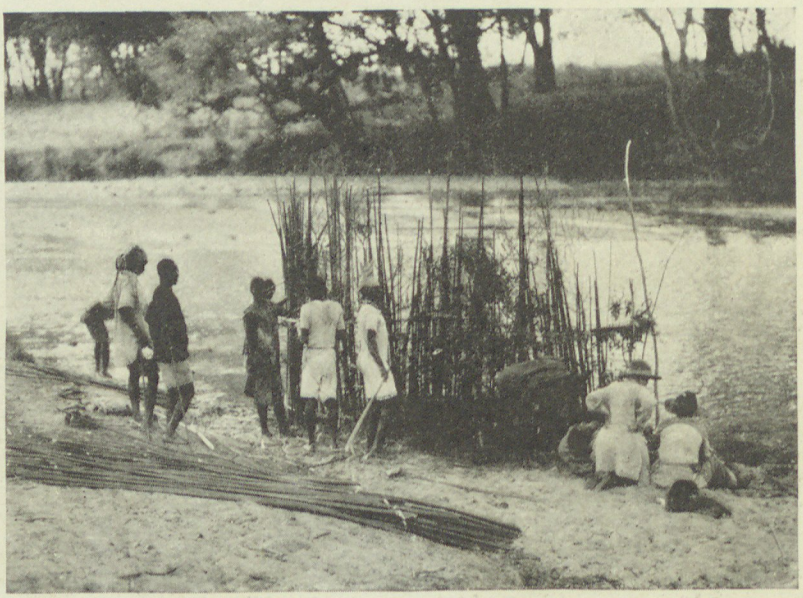
King Meets King

"Buddy" King and his rhino.

This Concludes the Story of an Interesting Big Game Hunt Taken by Mr. and Mrs. King and Their Son, "Buddy," as Told to Fred H. Doellner by

MRS. E. L. KING

MR. KING shot our first lion, near the Thiba River. He, in company with his gunbearer, and Mr. Maxwell following some distance behind, had started from camp early one morning to bring in a few birds for food. Mr. King carried his rifle, and the gunbearer the heavier gun. Not far from camp, he suddenly heard a low growl and turning saw a large lioness leaping towards him some fifty feet away. Without a word he handed his rifle back to the gunbearer, in exchange for the heavy gun and shot. The lioness was struck, but she kept on, with that wonderful vitality shown in all African animals. One more shot had to end it all, as far as she was concerned, or would end something for our party, and he shot once more. The lioness fell about ten feet from him, proving to be very old and in the right stage to become a man-eater, her teeth being worn down and thin and her physical condition beyond the stage where she might have had a chance with the animals of the forest, and man had become her prey.



Building an outdoor bathroom.

The Thiba was a broader and swifter river than the Thika and we had to cross it on a fallen log to get to a boma we had built about a mile away, where we had put out bait.

My gunbearer was a big burly negro and always wore the full equipment of his calling, which consisted of boots and puttees. He would have been much safer and happier without these boots, but his pride forbade his leaving them off. One of the most amusing of daily spectacles was the sight of Simba dangerously balancing himself across the log, with frantic clutches at over-hanging branches and girlish squeaks, while his bare-foot companions strode safely across with never a moment's hesitation.

During our stay at this camp, I had real proof of the strength of the sun brought home to me clearly. Buddy and I had wandered too far from camp for the approaching heat of day. On our return trip, the heat slowed us down considerably, and as the intensity of the sun increased every step seemed a mile, and the last mile I had serious doubts of being able to negotiate.

After about two weeks' stay on the Thiba, we broke camp and with the old headman of our safari, headed for the Tana, a deep, swift river, with plenty of rough water, about twenty miles distant.

The country between the Thiba and the Tana was open, hilly country, with practically no cover. In this day and age of highly improved American roads and powerful automobiles, a trip of twenty miles shrinks into a mere nothingness. Even the despised flivver, given a little gas and oil and handicapped by the most careful driver, would scorn to negotiate that distance in more than an hour. Yet a march of twenty miles in Africa with a safari of a hundred or more, and head-borne loads, under a blistering sun, is a real journey. About ten miles a day would be moderate progress for such a cortege. Fifteen miles a day is about as much as is accomplished by very steady and persistent going.

The soil between the Thiba and the Tana is what is known as the black cotton soil. It is made up almost exclusively of decayed vegetable matter, and when turned, though somewhat lumpy, on the application of the least pressure breaks down into a very fine, almost impalpable powder. Dusty, dirty, and heavy going in dry weather, a rain changes all into a sea of glue-like material which balls about the marcher's feet until it becomes practically impossible to lift a foot. When we first started our hunt from Fort Hall, everything was a luxurious green. The dry season advanced, however, so by the time we were headed for the Tana, the entire countryside was burned out and was practically nothing but bare earth to be seen. During the trek to cover this insignificant twenty miles, the

fact that ethics and convention are largely matters of geography and environment, was brought out amazingly.

The Ford which had followed our fortunes and footsteps as a portion of our motive equipment, found increasing difficulty in negotiating the deep, dry, cotton soil path, seamed every few feet with cracks and fissures, as it was. As we neared the Tana, greater difficulty arose, because the grade rose sharply until we were on a very steep hill, covered with the same kind of soil. Here the Ford would wabble and shimmy forward a few feet, and then with a grunt come to rest, wheels imbedded in one or more of these crevices. It was evident the Ford and that hill had conspired not only to make all passengers walk, but to administer them the severe lesson of letting the passengers push the Ford. All disembarked and it simply became a question of man and woman power. That particular road and hill had never been traversed by a Ford. Everybody had said that it was "impossible." The old American streak of "putting it over" and "showing 'em" had induced us to bring the Ford thus far.

We were now faced with the choice of abandoning the car or doing something extraordinary. Mr. King, driving the car, Buddy, myself, and one old chief, who professedly was very anxious and willing to help, added our man power to Ford power, and proceeded to negotiate that mile and a half of hill, to the accompaniment of much snorting, bawling, pushing and sweating. A few feet forward under combined power and then—plop!—into another crevice. Then again push and tug, and the Ford wiggled like an eel, another few feet forward.

In truly native manner, our very willing helper, the chief, was indeed extremely willing that Buddy and I do all the work. He aided us not one iota. After the first two hundred feet, I was almost willing to swear that he simply used the back of the Ford to lean against so as to save himself the effort of having to support his own weight. The saving feature of the whole episode was the laughable thought, that morals, conventions, and chivalry were certainly made by environment, for there in solitary grandeur sat friend husband, guiding the car with true African chief composure, while friend wife and son labored to push him and the car ever up the hill, in this triumphal march.

The "willing" chief served one good purpose, for with animal-like perception, he picked out easy grades, winding around and back and forth on the hill, and it was only under his guidance that it was humanly possible to bring the car up and over the hill. Any attempt to force it straight up would have met with failure. Being an American, favoring equal suffrage, scorning the idea that the woman was the weaker sex, I arrived at the brow of the hill convinced that if woman's equality had to be proved at the expense of pushing friend husband and automobile uphill, the penalty was greater than the benefit.

Henceforth, I am perfectly willing to be recognized as one of the weaker sex. Like all other arduous things, however, the succeeding descent and down to the banks of the river, which falling away from eight to ten feet into a beautiful beach, bordering on the riotous rapid-flecked channel, made up for all our trials. Mr. King, especially, agreed that the reward well repaid him for his arduous task of guiding the flivver, while we pushed.

The sojourn beside the Tana was the real thing in roughing it, big game hunting, and crowded with more thrills than anything heretofore. The whole picture, as it presents itself to me now, shows our hunter, Maxwell, wisely led us to more tense situations and difficult encounters, gradually.

Fishing in the Tana was much better. While the river abounded in ugly, bony, ill-tasting fish previously mentioned, it also boasted plenty of eels, highly palatable, and which we found a very welcome relief from our steady meat diet. So both the natives and whites found the satisfaction for our fish appetites beside the Tanna, and blessed it accordingly.

The location was so thoroughly favorable that we set about preparing this as a more permanent camp for a longer stay. The banks of the river were about eight or ten feet above stream level, dropped rather sharply, and then shelved down to a very fine beach. The banks were luxuriantly clothed with vegetation of all kinds. The bigger trees threw their branches over the beach, making wonderful, cool, shady camping grounds. The tents were arranged side by side, and a short distance from these the boys erected a bathroom by putting alder stems in the sand and weaving a truly native enclosure for us.

We also had our "banda," another piece of native architecture. Four thorn poles were cut, stripped, set up, and capped with a grass thatched hip roof. The bundles of grass used for thatching were bound and woven together

The elite.

with cord made from the inner bark of the thorn trees. The result was an open air pavilion, giving splendid shade and protection from the sun, or any other elements.

The amazing realization was driven home that the native fashions what Nature supplies, to his own ends and use, satisfying his every modest need.

Just after making camp on the Tana, we sighted a herd of beautiful eland, a type of African deer. With the mouths of our whole train to feed, it became necessary for us to hunt for food as well as for sport. Mr. King, therefore, set out to bring down a couple of these eland for gastronomic use. After stalking most carefully and persistently, he arrived almost within gunshot. With gun poised, trigger finger ready to contract, a hen ostrich with her brood of a half dozen or so chicks (about the size of fifteen to twenty pound turkeys) became frightened and dashed past, close to the herd of eland. The wild instinct immediately asserted itself, and without reasoning why, other than to know that something had frightened the ostrich and her brood, the eland were instantly in full flight and Mr. King's opportunity for a supper-making shot was gone like the wind.

One day I decided I would like to look for a hippopotamus and Maxwell accompanied me to a stream. Vainly I searched for sight of a monstrous black head.

After scanning the shores of the open water fixedly, I decided that there was no hippopotamus there, and Maxwell said:

"Why, there he is, over there," pointing beneath the overhang of a bush. Looking carefully, I could see nothing monstrous or black there, and presume I would be looking yet if he had not said:

"Do you not see that pinkish gray spotted sort of an affair?"

This, then, fixed my attention for the first time, and I realized that instead of being a dense black, our friend the hippopotamus really was a speckled, grayish tint. Again so much for our pre-conceived notions.

We worked up and down, back and forth, from our camp as we hunted. Our hunter had established a sort of permanent camp, consisting of a hut or two within a mile of our camp, on the banks. He had collected a number of five-gallon tins, very similar to those used for containing automobile lubricant. These he had bound together into a raft. This very unique transport was splendidly buoyant, but horribly balky and resented seriously all effort to guide it in any direction other than its own sweet choice. The proverbial army mule, despite its proverbial iniquity, would well be regarded as amiable and angelic, in comparison with the sinful perversity and cross-grained disposition this raft revealed.

Finding the Tana to be unfordable, we made several attempts to cross on Maxwell's raft. Started at any given point, it usually landed from one to three miles down stream, before touching the other bank. Coming back to the original side, one landed still further away from camp. Two round trips would take the raft literally a day's trek downstream. Inasmuch as the Tana abounded with crocodiles, it needed considerable persuasion to induce one of our porters to swim across carrying with him a light line, with which he pulled over a substantial wire. We congratulated ourselves on having established a successful and labor-saving ferry. Maxwell and a couple of natives crossed. Before reaching the other bank, the overstretched wire broke, with the inevitable result that after many gyrations and plunges the raft finally landed a mile or more downstream on the opposite side.

Walking back to the point where the ferry had been originally planned, one of Maxwell's gun bearers accidentally discharged a gun. Our guide had a very narrow squeak, for the heavy ball passed through the pocket of his hunting jacket, narrowly escaping doing serious harm.

Many amusing and very comical incidents arose as a result of various attempts to cross back and forth by way of the raft. The Tana, however, seemed to nurse a grudge against and seriously resent any effort to cross it. Whenever an effort was made, someone or something came to grief.

Eland, hippo, buffalo, waterbuck, bushbuck, birds of all kinds, and impalla fell before our guns in substantial numbers. This impalla, as it is called, is a beautiful little deer, very much like our Virginia deer, with curving horns very nearly lyre-like in shape. The hippo is formidable only in size, and inclined to be extremely shy. It remains submerged during the day, keeping as much out of man and other animal's ways as possible, at all times. In his huge shyness, he is just the reverse of the cranky, irritable rhino, whom spleen and crabbed temper compel to charge like a wild locomotive straight down wind, promptly upon scenting anything. Having but inadequate sight, but a splendid sense of scent, there is little or nothing that a rhino will not charge headlong as soon as the first breath of air carries the first scent to his nostrils.

Our trips from camp radiated in all directions, and we spent between three and four very splendid weeks here.

The history of one of nature's ordinarily unrecorded tragedies in all of its bloody details was unfolded for us while out one day. We came upon the tracks of a buffalo. Following it a short distance we noticed them to be overlaid with tracks of a lion. Apparently the buffalo in the lead and the lion pursuing had traveled a considerable distance. Then it changed. The buffalo apparently at bay turned and charged, and the lion crouched and sprang. The story of this was very clearly depicted to the tracker's eyes, for it showed the reversed footprints of the buffalo and the deep ball-like imprint and claw marks showing the point of take-off for the lion. There were no signs of blood or hide. The tracks again resumed, the buffalo well in the lead. Just about here, the tracks became overlaid with hyena tracks which were extremely numerous. Just a little further along we came upon the buffalo's tail and signs of blood, but no other debris. From there on, the buffalo tracks overlaid by hyena tracks continued to the edge of an unusually abrupt donga, or drywash, and at the bottom of the donga was the buffalo's body, hoof caught in a tree root, and with a vast hole eaten into his side, showing that the hyenas had overtaken their quarry when this accident occurred, glutted themselves, only to be frightened off in turn, by the approach of some superior beast, or possibly ourselves.

Eventually, we broke camp and trekked for Nairobia, our base station. This would have been made unnecessary, but the Duke of York had come into the territory for a shooting excursion, and many of our boys were attracted to his safari. These boys, as the porters and other natives are called, are required to fulfill their contract for work, but at the expiration of the same they are not required to renew their indenture unless they so see fit. The majority of the boys were from Uganda, known as Bugandans, and their language was Leuganda. On the whole, they are a sturdy, husky lot, and we found them good natured. They are regarded as amongst the more desirable natives for hire.

While hunting big game was our chief desire, our encounters were frequently punctuated with annoyances from lesser objects, which, though diminutive in size, are worthy of mention. These lesser objects consisted of the African insects.

The most deadly creature in Africa is not the elephant or the lion, destructive as they are, but it is the inconspicuous little beast known as the mosquito, which takes its toll of thousands of lives yearly. Malaria, produced by mosquito bites, is one of the greatest drawbacks to the settlement of the country. The African mosquito is seldom seen in the daytime and is not particularly noticeable at night, but in no event would one think of attempting to sleep without a mosquito net as one bite is sufficient to inoculate one with malaria germs.

Upon entering the country we were cautioned to take five grains of quinine every day as a malaria preventative, but eventually we all forgot about it and we all escaped without a touch of the fever.

Black water fever is another peril, short and acute in its attack, in which the patient is either dead or up and about within five days.

East Africa is the home of the ant. No place on earth can produce so many ants to the square inch. Ants—of every kind, size and color. Some of them bite. Some will destroy food and others will eat anything left on the ground.

White ants specialize in eating wood and will destroy an untenanted wooden building in a short time.

Some ants possess a most repulsive odor. At one camp we were disturbed by a disagree- *(Continued on page 84)*

© Michigan Photo Company

Outlet of a Michigan sewer through which refuse was discharged from the settling basin.

It Can Be Done

With this as their slogan the Michigan division I.W.L.A. is making some great strides. This fight for clean waters proves it

By MAX SANDY

IN Michigan the Izaak Walton League has as its slogan, "It Can Be Done." No official adoption of this slogan ever has been recorded. Nobody ever has said anything about it at state conventions or meetings of state officers. Practice rather than promise has established "It can be done" as the trade mark of Walton leaguers in the Wolverine state.

This productive practice relates especially to the evil problem of water pollution.

Our story dates back nearly two years to the appearance in a national magazine of an article which related the lamentable condition of Michigan's glorious waters. City after city was named in that article as responsible for pollution. River after river was named as condemned by pollution. Nothing, said the magazine writer, was being done. And he was right. At that time nothing was being done. Power to curb pollution rested solely in the hands of the state department of health and the attorney general. The health officials naturally were not interested in pollution in its early and progressive stages. Not until public health was endangered could Lansing—under those conditions—be stirred to action. That meant that there was no effort made to protect the hundreds of streams, not yet beyond saving.

But, as we were saying, that was nearly two years ago when the Michigan division of the Izaak Walton league was young and when the continued anti-pollution campaigning of one Grand Rapids newspaper was as a voice in the wilderness.

Our story now jumps to the 1925 session of the Legislature with Harold Smedley, state Izaak Walton league counsel, sitting as a representative from Kent county. Smedley, as spokesman for the league, introduced the Smedley anti-pollution bill. Instantly pollution came into the public eye—or rather the public nostrils. But the veterans of the Legislature laughed at enthusiastic Mr. Smedley. His bill couldn't pass, they said, regardless of newspaper support and Conservation department support. They were right. Interests profiting from pollution insinuated their voice into the Legislature. The Smedley bill was beaten. But Representative Smedley and the Izaak Walton league weren't.

The meat of Smedley's original measure empowered the state Conservation department to proceed against water polluters with authority equal to that already held by the Health department. By delving into the existing laws Smedley and his co-workers in the state Conservation department found that there already was sufficient authority for cleaning up streams if only the authority could be so placed as to bring action.

With his original bill beaten and with the polluters of Michigan streams snickering up their sleeves, Smedley, advised by Fred K. George, chairman of the legislative committee of the state Walton division, quietly proceeded to tack a seemingly inoffensive rider on the tail of another measure in which there was little Legislative interest. Bill and rider passed, and the Governor gave his approval. Michigan awakened one morning to find that the Conservation department was preparing to clean up Michigan streams.

Even then the doubters said it couldn't be done. "You can't force great industries to stop dumping wastes into streams," they said. "And what about the cities? They won't all agree to build sewage disposal plants."

But the fighters for clean waters were prepared for all angles of the problem. The Legislature also passed a law permitting municipalities to issue bonds for sewage disposal plants without a vote of the people, when ordered by the state to do so.

With the materials of war thus provided, Director of Conservation John Baird at *(Continued on page 73)*

Chips of the Night

An Illinois Coon Hunt that Was Different

By H. F. SCHELL

Illustration by William Schmedtgen.

THE "January Thaw" did not come until March. A slight suggestion of returning life was borne on the quickening winds which crooned dreamily through the bare tops of the melancholy trees. Among their bare trunks, the Sugar river meandered its lazy way through the sandy soil of the low, marshy land.

A boatman skillfully guided his boat through the floating ice and directed it to a higher bank downstream. A dexterous stroke of the oars, and the boat glided swiftly alongside his crude landing place. The clangorous rattle of the chain on the side of the boat startled a flock of early arriving teal, and they scurried downstream to a more secluded spot, but "Big Lou" heeded them not. Nor did he hear the noisy cawing of the querulous crows as they vainly tried to frighten a hawk from a near-by tree.

Big Lou was a giant in stature. Two hundred fifty pounds were "packed" on his six foot six frame—a perfect physique except for the fact that his left knee was stiff. This handicap made him throw his leg sidewise as he walked, giving him an awkward, swivel-like movement.

Because of his solitary life, he had formed the habit of talking to himself. As he slowly walked toward his cabin, he muttered, "I'll do it. Yes sir, I'll do it. I know it will work." Having come to his decision, he hurried into the cabin.

Big Lou earned his precarious living by trapping and wood cutting in the winter, and by doing "day work" for the neighboring farmers in summer. Had his *desire* to work been equal to his *ability* to work, he would have fared well. But such was not the case. He enjoyed the trapping, but he disliked the wood cutting and the routine "day work." In contrast to his indisposition to work was his marked disposition to eat. These contrasting traits of character often forced him to use ingenious methods.

Since coming to a decision to "do it," Big Lou worked more rapidly and more cheerfully. He hung his catch of hides on a peg, then hurriedly locking the door of his cabin, he started to "swivel" his way across the boggy swamp land, two miles to the nearest neighbor.

Mrs. Waller greeted Lou as he approached the back steps. "Come in, Lou. Come right in."

Lou noticed with disappointment that dinner was over. But no one entered the Waller home and left without eating. Many a hungry hunter who had "happened" to have lost his matches could testify to this.

"Sit down, Lou! Bring your chair up to the stove. Dinner is over, but I can warm up the coffee and give you a few odds and ends," Mrs. Waller urged, as she crammed a few dry hickory sticks into the already red-hot stove.

Lou's face brightened, but he replied, "No, thank you, Mrs. Waller. No, I'm not hungry. I just came to see if I could use your 'phone."

He knew that he was taking no chances when he said he was not hungry. He had said it many times before, but he never left without eating. It was lucky for the rest that they had had their share before the cavernous Lou began.

"Them ham and eggs are lovely," he said, as ham, eggs, potatoes, bread, and coffee disappeared—disappeared apparently to no purpose, since Lou's eyes anxiously scanned the kitchen for more.

"Won't you have some of Lee's honey? He just took it off yesterday," Mrs. Waller urged, as she noticed Lou's disposition to continue eating.

"Do you have plenty of work, Lou?" Mrs. Waller asked, as she refilled his coffee cup.

At the suggestion of work, Lou appeared nervous, if not actually frightened. Could it be possible that Lee had some trees to cut! To ward off further suggestion on her part, he replied hastily, "Yes, Mrs. Waller, plenty of work, plenty of work. More than I can do—almost."

"Doc," the village dentist, was finishing a set of teeth when his 'phone rang. "Hello, Doc. Is that you? Well, this is Lou. Are you going to be busy tonight?"

Doc's reply that he was going to be busy did not discourage Lou in the least. Doc always replied the same, but Lou knew his weakness.

"There's a big coon in the big elm tree by the Goose Pond," Lou continued.

Doc was so interested that he forgot that he was busy. "How do you know?"

"Saw his tracks in the snow. Tracks going toward the tree, but none coming away. He is sure a big one. Tracks as big as my hand." (A coon that could make tracks as big as Lou's hand would have filled the heart of the bravest cave-man with terror.)

"We'll be down, and we'll have our supper at the cabin tonight, Lou," Doc eagerly replied.

That meant two good "eats" for Lou in one day, as Doc always brought plenty of provisions to the cabin when he came.

In five minutes from the time Doc hung up his receiver, his office had undergone a transformation. A sign on his office door read: "Out of the city. Back at 10:00 A. M.

Tomorrow." His white linen coat hung on the back of his chair and various materials and implements of torture were promiscuously piled into a cabinet.

Poor little Otto Swale, who found that his tooth had suddenly stopped aching as he climbed the creaking stairs to the dentist's office, read the sign and joyfully hurried down the steps, only to find that the toothache was renewed when the possibility of having it pulled was gone.

In the rear of Doc's office was a store-room. Here were several boxes containing implements of the chase. Into these Doc dug with all the eagerness of a puppy digging for a gopher. Boots, spotlight, axes, and clothing were thrown in confusion behind him, as he dug deeper and deeper into his treasure.

Finally his head emerged from the last box and the excited Doc, his face liver colored, his hair all awry, sat on the edge of the box and took a careful inventory of the pile on the floor. When satisfied that all of his paraphernalia was collected, he suddenly remembered that he had forgotten to 'phone "Fess."

Fess was the principal of the village school. The dignified people of the village honored him with the title of "Professor," but his companions abbreviated the title to "Fess." Fess was considered a good school man, but in later years, when his school work was forgotten, he was still remembered as "Sure one good coon hunter."

On this afternoon, Fess had just sent out word to his teachers that there would be a teachers' meeting that afternoon. It was a coincidence that the topic to be discussed was, "Plans and Punishments to Prevent Truancy." However, when Doc 'phoned that there was a "Big coon in the big elm tree by the Goose Pond," that was the one topic Fess did not wish to discuss.

School was not "out" until four, and the teachers' meeting was to follow. In order to arrive at the cabin in time for supper, it would be necessary for Fess to leave the building before three. A second note quickly followed, telling the surprised and suspicious teachers that the meeting had to be postponed because of "urgent business out of town."

Meanwhile Big Lou had returned to the cabin and was stretching his hides over specially prepared boards. As he continued his work, he watched the clock closely and muttered to himself, "Gee, it will surely be rich if it works!"

The liveryman was ordered to put storm curtains on the buggy and bring it to Doc's house. This was done to conceal the movements of the two busy men. The back seat was soon packed full. The last to be loaded were two coon hounds—Blue and Rattler. Blue was a bluefleck hound, large and rangy; famous for his ability to range, to trail, to tree, and to kill. Rattler was a red-bone hound, said to be a direct descendant of the coon hounds owned by the famous David Crockett. Perhaps Blue had the "edge" on Rattler on everything except cold trailing. There Rattler was supreme. "He will follow a trail twelve hours old," was the boastful claim of his owners.

The way was long, and the road was muddy. The blue clay stuck to the spokes until the wheels were almost solid. The steaming, foam-flecked horses could not go faster than a walk. In the rear seat, the hounds shivered and whined —not of cold, but of nervous excitement.

"I wonder if the ice in the Goose Pond has thawed yet?" Doc ventured.

"Not yet," replied Fess. "The ice on the river has broken only two days ago, and the Goose Pond is always a week later."

As six o'clock approached, Lou watched the clock more anxiously and filled his red, rusty stove full of wood. In spite of his meal at Waller's, he was ready for an early supper. He stepped to the door and listened. He heard the quacking of a few ducks toward the Horseshoe; he heard an owl hooting in the timber on the bluff; he heard a far off farm dog barking at the crescent moon as it shone intermittently through the fleecy clouds as they raced across the sky; but he did not hear what he had hoped to hear—the sound of a team coming across the flats. He stepped out and closed the door to deaden the sound of the singing kettle on the stove. He placed his massive hand to his ear and turned his head so as to catch the wished-for sound from the west. "I'll sure be out of luck if they don't come. No supper and no chance to try it again," Lou muttered as he stepped back into the warm cabin.

The drive across the flats was a difficult task at any time, but it was well nigh impossible in March. The men, and the dogs, and the luggage were tossed about like toy balloons in the lurching, creaking buggy. An unusually hard plunge threw Blue on Rattler and a fight began, which Fess hastened to stop. It was the howling and growling of the hounds that warned Lou of the approach of Doc and Fess.

While the horses were being tied and blanketed, and the dogs were being placed in the cabin, Lou busied himself taking care of the provisions. When the last package was piled on the cabin table, Lou placed his hands on his lips and viewed the stack with extreme satisfaction.

As Doc and Fess prepared *(Continued on page 84)*

Big Lou was a giant in stature.

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The back water of the high dam between the cities. Imagine this spoiled by pollution.

Pollution of the Upper Mississippi

By JUDSON L. WICKS

Photographs by Kenneth M. Wright

The pollution department is edited by Dr. Henry Baldwin Ward, a leading national authority, who has just been elected vice-president of the Illinois State Division I. W. L. A. We congratulate the division on their action—E. H. R.

THE purification of the Upper Mississippi is a matter of national interest. For generations it has been the mecca of every lover of the outdoors. Recently, through efforts of the IZAAK WALTON LEAGUE the federal government was induced to establish here a great wild life refuge.

In the cities of Minneapolis and St. Paul and their immediate environs are gathered perhaps three quarters of a million people. Their entire sewage and industrial waste is discharged into the Mississippi river.

To those not familiar with the geography of the Twin Cities it may be said that the river runs through the heart of both cities and from the extreme north limits of Minneapolis to the extreme east and south limits of St. Paul it has a length of some twenty miles. Near the southerly limits of Minneapolis the Government in recent years has built a dam commonly known as the High Dam which serves to create a reservoir of dead water some two miles in length. Into this reservoir is discharged most of the sewage of Minneapolis and considerable of the sewage of St. Paul. This stretch of the river has b e a u t i f u l high, wooded banks which, with the boulevards on the top, constitute the gem of the entire park systems of both cities. This reservoir is now a septic tank—an open cess-pool.

The Father of Waters comes to the cities reasonably pure, it leaves them, unspeakably vile. A bacterial count made by the State Board of Health on Oct. 24, 1924, shows 450 germs to the cubic centimeter at Camden Bridge near the northern limits of Minneapolis; 175,000 at the Franklin Ave. Bridge, midway in the city, and 500,000 at the High Dam—no, this is not a misprint! Do not read it 500 or 5,000 but five hundred thousand. In other words the stream in its course through the city has multiplied its bacterial count more than eleven hundred times. And now note how this noble river, through the beneficent agencies of nature, its sunlight and its winds, tries to free itself from

this burden of filth. At Inver Grove, some ten or twelve miles below the main discharge of St. Paul sewage, the count was 120,000 bacteria to the cubic centimeter, and at Lake Pepin, some 60 or 70 miles further down stream it fell to 3,800.

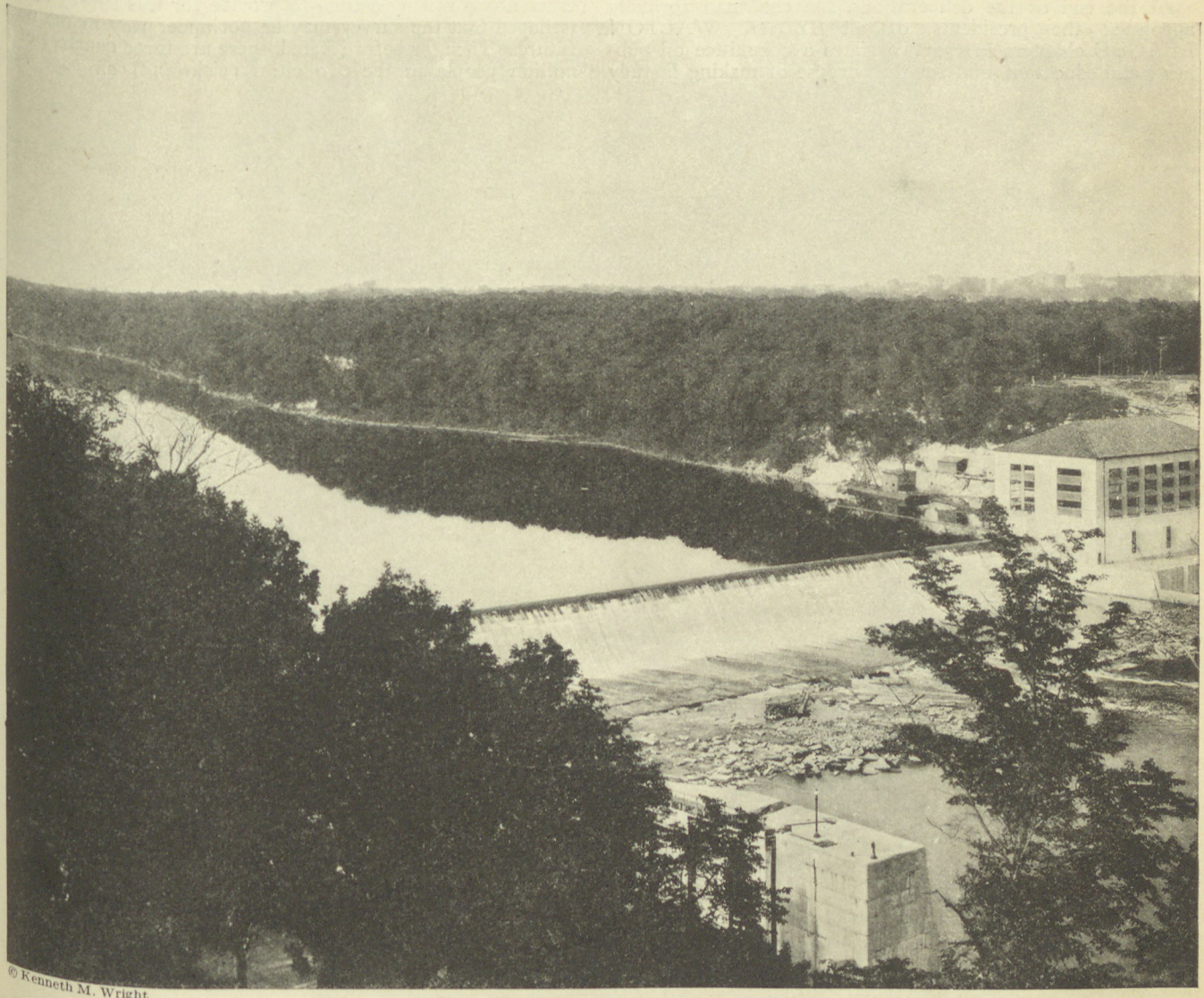
The apathy that has existed in relation to this situation has been deplorable. The average citizen seems never to have heard of a sewage disposal plant. He can readily understand why a city should spend millions to purify the water that comes into it, but he cannot conceive of any reason for spending good money to purify the water that it returns to the stream.

Something over a year ago the State Board of Health in a formal communication addressed to the Councils of both cities called attention to the serious situation presented by discharging sewage into the river. The public reaction was practically nil. One paper in one of the cities devoted about 10 lines of the matter. In August of this year a similar communication was addressed to the same Councils with the result that the newspaper clippings in relation thereto would constitute two hours reading. And best of all, the attitude of the press was in the main favorable to some action to relieve the situation.

Between the dates of those two communications, however, various agencies had been at work in an effort to awaken a public interest. The Minneapolis Chapter of the IZAAK WALTON LEAGUE does not wish to assume any undue credit in bringing about this result but it is happy to say that it has been rendering some good yeoman service in the matter. The Minneapolis Tribune of Aug. 5, 1925, says: "Spokesmen for the IZAAK WALTON LEAGUE called impressive attention to the situation, actual and prospective, through the colums of the Tribune" etc. The Izaak Walton chapters of both Minnesota and Wisconsin were largely instrumental in securing the appointment by the last legislatures of these states of socalled Interim Committees, one for each state, which committees were charged with the duty of investigating the matter of the pollution of the Mississippi River and to report at the next session of their respective legislatures. Our chapter has from time to time made communications to the press on the subject of pollution, all of which we are pleased to say were accepted and published. We have also kept in close touch with the Sanitation Division of the State Board of Health and with all interests and agencies in any wise concerned in the matter.

Early in September a joint meeting of the Engineers Clubs of the two cities was held to consider the subject of sewage disposal. There was a large and very representative attendance. The subject was discussed by the most eminent engineers of the two cities and at the close of the session a committee was appointed to make a study of the situation and report later. Incidentally it might be stated that the president of the Minneapolis Chapter was invited to attend and address this meeting which invitation he was happy to accept.

The initial meeting of the Interim Committees above referred to was held at Red Wing, Minn., on Oct. 24th. All of the members of both committees were present with the exception of Sen. Carli, Chairman of the Minnesota committee, who was unavoidably absent. Sen. Hunt of River Falls, Wis., presided. The Attorney Generals of both states were present in person. The Conservation Commissions as well as the Boards of Health of both states sent two or more representatives each. The Chief Sanitation Engineers of both states were present—Mr. H. A. Whittaker of Min-



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The dam that holds back the entire sewage of the Twin Cities, Minneapolis and St. Paul.

nesota and Mr. C. M. Baker of Wisconsin. The Federal Government was represented by Wm. T. Cox, the newly appointed superintendent of the Mississippi Wild Life Refuge with headquarters at Winona, Minn., and by H. L. Canfield, Supt. of the Bureau of Fisheries at Homer, Minn. The latter, by the way, is a very ardent member of the IZAAK WALTON LEAGUE. There were present some six or seven representatives of the League, including Geo. H. Selover, Pres. of the Minnesota Division, and also a member of the national executive committee. In other words, pretty much every governmental agency, whether national or state, in any wise concerned with the Upper Mississippi problem was well represented and in addition the IZAAK WALTON LEAGUE.

The committees were in session both forenoon and afternoon and pretty much every one present contributed to the discussion. It was recognized, of course, that in this matter of pollution the Twin Cities were the principal offenders, but there was at no time any trace of acrimony or recrimination. There was no doubt a feeling that the cities in due time would do their full duty in the matter. Not only was there no noticeable discord between communities up stream and down stream, but the utmost harmony and good feeling prevailed between the representatives of the two states.

Of course, in a certain sense, this meeting did not get very far. No one expected that it would. The river is as foul today as it was the day before the meeting. But in another sense it accomplished a good deal. In the first place it was an official recognition by the two great commonwealths of Minnesota and Wisconsin of the serious problem of the Upper Mississippi pollution. In an impressive way it has served to focus public attention on the subject. It has caused wide newspaper notice.

At the end of the deliberations, the chairman formally appointed the presidents of all IZAAK WALTON LEAGUE chapters in the two states a committee on publicity and education, and for the purpose of making a study of the technical problems involved he appointed a committee consisting of Mr. Whittaker and Mr. Baker, the sanitation engineers above mentioned.

It was very pleasing to note throughout the day the hearty accord and sympathy that seemed to exist between the committees and the state and government officials on the one hand and the IZAAK WALTON LEAGUE on the other. The co-operation of the League seemed to be sought and warmly welcomed.

It is probably that nothing definite or concrete can be done in the way of river purification until the next session of the legislatures of the two states in January of 1927. The best thought seems to be that so far as the Twin Cities are concerned their problem is a joint one and that a separate solution would be unwise and uneconomical. This being the case, the coming Minnesota legislature should provide for the creation of a sanitation district comprising the two cities, making of this district a distinct municipal corporation, and endowing it with adequate powers of engineering and finance to proceed to study and solve the problem in the best way and ultimately to construct and operate the requisite sewage disposal plant or plants. This would seem to be the most practical and wisest course to pursue and it is perhaps regrettable that so much time must elapse before the next session of the legislature. In the meantime, however, there are two things than can be done, and perhaps there is not too much time for that purpose. In the first place a preliminary technical survey should be made of the river water, at various points along its course, and at various seasons of the year to determine the character and extent of the pollution, and secondly, public sentiment must be created. An attempt will be made soon to secure the co-operation of the federal, state, and city governments in raising a fund to provide for this survey and it is hoped that the survey may be got under way in the near future. Then, as before stated, there are three quarters of a million people in the two cities *(Continued on page 72)*

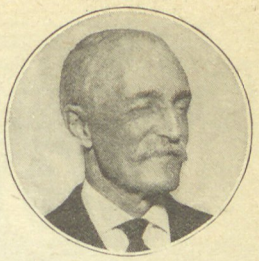
© Kenneth M. Wright

The Upper Mississippi below St. Paul and Minneapolis. One-half million people are dumping their sewage into the river at this point.

The Fourth National Convention

Izaak Walton League of America

Hotel Sherman, Chicago. April 8-9-10

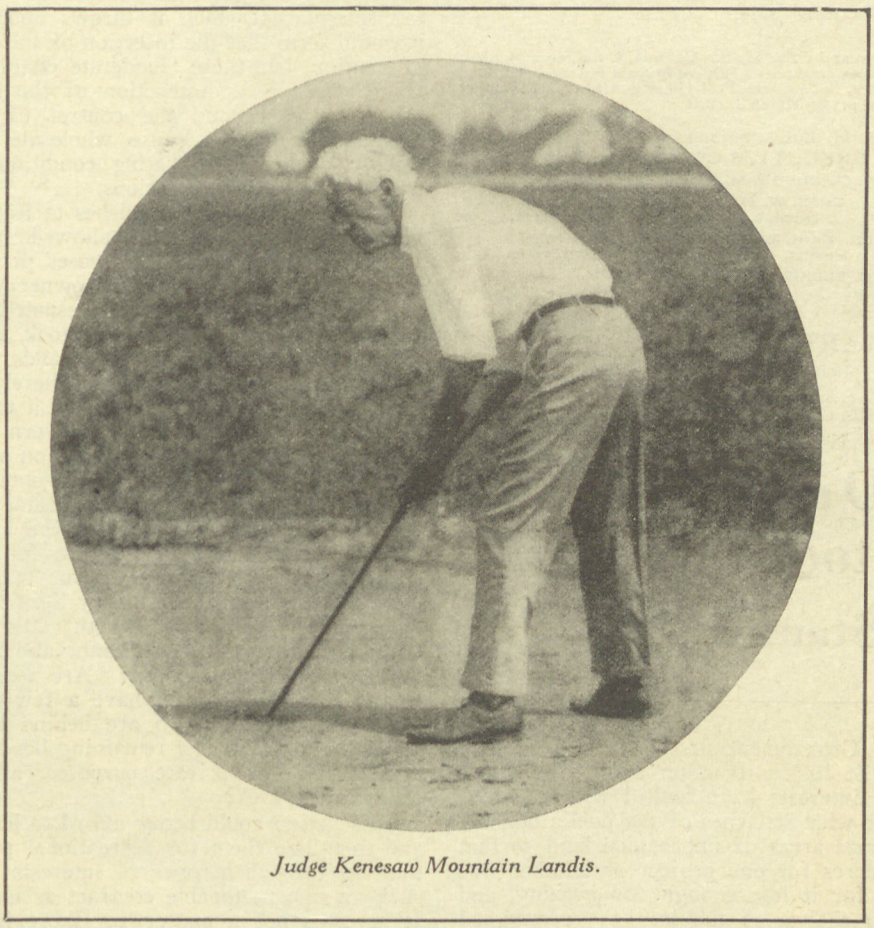


Governor Gifford Pinchot of Pennsylvania.

See That Your Chapter is Represented
At This Great National Event

WITH every city in the United States clamoring to hear of the wonderful expedition from which he and his brother Kermit have just returned, Col. Theodore Roosevelt has definitely accepted the invitation to be the principal speaker at the fourth national Izaak Walton League convention banquet.

A student of current events can readily appreciate the importance of such an acceptance, and already hundreds of requests for banquet tickets have reached the secretary.



Judge Kenesaw Mountain Landis.

Judge Kenesaw Mountain Landis, commissioner of America's baseball, has accepted the position of chairman at this banquet, and Governor Pinchot of Pennsylvania has been invited to take a place on the program.

This convention is of tremendous importance to the national plan of conservation, as questions bearing directly upon future activities will be taken up and decided there.

You CANNOT AFFORD to miss this convention. Your Chapter must be represented in order to adequately determine what *you* want in the way of local and national assistance.

The Izaak Walton League has passed the experimental stage. It is now an accomplished fact with working units throughout the country functioning in the interests of a better and cleaner out of doors.

It is the individual cooperation that counts and *you* are just as important as any man or woman in the entire organization. It is YOU personally that the Izaak Walton League is trying to reach and if YOU personally take it upon yourself to go to your officers and see that your Chapter is represented, *you* will have done your bit.

If your Chapter feels that there is not enough money in the treasury of the local organization to enable them to send a delegate, call some of your friends together and put the story up to them. Tell them that this League is trying to make a better country for them and their children — tell them what you are trying to do locally and see that enough money is raised to send at least one delegate.

The delegates planning to attend should carefully carry out the details suggested to them in order to expedite and facilitate the first day's activities.

See that your credentials are properly certified. Make your hotel reservations and *get railroad certificates from your local ticket office.* This last is of great importance, as we must have a certain number of these certificates to make valid the special rates granted by the railroad for this convention. See that all guests and visitors receive these certificates, as they will be granted a special rate if this is done.

A complete program of activities is now being planned by the convention committee, and an interesting three-day session is assured.

Our sportsman's show will be the greatest thing of its kind ever held.

Outdoor America

Member A. B. C.

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THE IZAAK WALTON LEAGUE OF AMERICA

DEFENDER OF WOODS, WATERS AND WILD LIFE

National Headquarters

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Chicago, Ill.

Issued Monthly—Single Copy 25c

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WILL H. DILG, PRESIDENT

NATIONAL EXECUTIVE COMMITTEE

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EWART H. ROSS

Managing Editor

Save Our Forests from Stock Grazing!

The Stanfield Bill

EVER since our Government first granted land to a railroad to assist its construction across the Great Plains, special interests have looked with covetous eyes toward the wide stretches of the public domain. At first there were great areas of unoccupied land so that the taking of a few acres for one project or another was of little consequence, for it left enough for grazing, and there then seemed no chance of the loss of recreational advantages, the public conscience was not aroused, and we allowed tract after tract to be used, and timber destroyed, until we now have small areas, which, in proportion to the increased population leaves a small proportion of wilderness areas for recreational purposes, so that we do, and justly should, look with care upon any encroachment or private use of the public lands.

The latest attempt to gain control of these lands is embodied in a bill introduced into the United States Senate by Senator Stanfield, known as Senate File 2584. While the bill, as a whole, shows that it has been drafted with the most careful and consummate skill by one whose long training and experience was coupled with the most astute powers of embodying all that he wished, and at the same time carefully concealing the true purpose. However, one need go no further than the caption of the bill, which reads, "A bill to promote the development, protection and utilization of stock grazing facilities on public lands, to stabilize the stock raising industry, and for other purposes."

The time has come in this great country of ours, when we no longer need to develop and protect the stock raising industry, on public lands. If we go no further into the bill, its own caption condemns it, for if enacted, it pledges our public lands to the same grazing policy which has proven so disastrous to the forests of European countries, where poverty and desolation have followed in the wake of unregulated grazing.

This bill provides that the use of public lands may be granted to private individuals, in such a manner that such grants are practically perpetual grants as they may be sold, devised or transferred. One holding such grants may determine the number of stock animals that may be grazed on a given area, and in substance gives to the stock owner, a practical monopoly of the public lands. While it limits such grants to a ten year period, yet the conditions upon which such grants are renewed, are that when once established, the public would lose control, and when they have allowed their stock to over pasture these areas, there is a further provision that the grazing fees shall be fixed with due regard to the economic value of the forage. The bill first of all provides that the fees for these privileges shall first of all "Be moderate." With the safeguards which it throws about the stock owners, it would seem that the insertion of this clause was an excess of caution, but these "moderate charges" may be remitted where there is a destruction of the range by drought or other cause, beyond the control of the grantee, where calamity or disease cause wholesale destruction of livestock, or adverse marketing conditions cause general distress in marketing conditions.

When the stock owner wishes to lease or use government lands, why should he be allowed special privileges not accorded to the person who leases private lands? If these were private lands, the stock owner would investigate the grazing areas, he would be presumed to know the causes which might cause loss to his stock, and with these things in mind, would contract for the lands. If he lost his stock, or had a drought, it would be merely the hazards of his business, but in this bill, they wish to take all the profits, and if a loss occurs, then the government should carry all the loss. It is indeed a proposition which fails to appeal to the sense of fair play, which should underlie all business transactions, and is monumental evidence of the selfishness and greed upon which the bill is bottomed.

Shall we permit interests who father such a bill, with such a motive, to take over our public lands, and allow them to take from the Forestry Service, the control of our forests, and overrun them with cattle and with sheep, and depend on their sense of honor and fair play to see that these areas are conserved? Are we to close these areas to the few settlers who have a few cattle and are we to allow the interests who are behind this bill to close the water holes to the few remaining heads of game, to denude our forests for private purposes, and close them to all recreational uses?

This nation could better afford to let the grazing lie idle, and to utilize them for recreational purposes alone, rather than to turn them over to interests who would advocate such an unconscionable contract as is proposed in the bill. It becomes not a matter for those in the states affected, these are public lands, and it is for you from the South, North, East and West to see that in the handling of the lands, which are the property of all, that the Government gets a square deal. It does not want such a bill as this proposed by Senator Stanfield.

Black Bass Bill and Ouachita National Park—

EVERY sportsman in America should make special effort to write his or her Representative in Washington to support the Hawes Black Bass Bill, H. R. 71 and the bill to establish Ouachita National Park in Arkansas, H. R. 4079 and Senate Bill 1141. Do it today before you forget it. Tell your Representative what you want. These bills are worthy of your ardent support.

Pfluegers' Latest

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PFLUEGER
PRONOUNCED "FLEW-GER"
FISHING TACKLE
For Every Species of Game Fish Fresh and Salt Water Fishing
Pflueger Tackle is made for every kind of fishing from the gamy Bass, Trout, Muskallunge and other game fish of the fresh water lakes and streams to the leaping Tarpon and all other salt water game fish.
Made by the Pfluegers' for three generations.
Best By Test SINCE 1864
THE ENTERPRISE MFG. COMPANY
THE PFLUEGERS' AKRON, OHIO, U.S.A.
SUCCESSORS TO THE AMERICAN FISH HOOK CO.
ESTABLISHED 1864

More Than a Catalog

Shows truthful illustrations of all the principal fresh and salt water game fish with reliable information about habits, where found, what they feed on, food value, heaviest fish of each kind on record caught and Pfluegers' recommendations for tackle to use in catching.

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IMPORTED TROUT FLIES
(All the Popular Patterns)
MONARCH BRAND
(As Good as Others' Best)
Wet Flies—on Gut.....$1.00 per dozen
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(Finest Possible to Make)
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DOUBLE TAPERED LINES
INTRINSIC—THE WORLD'S BEST QUALITY. SOFT FINISH.
Dark Brown or Green. For Dry Fly and Wet Fly.

Sizes	C	D	E	F
Intrinsic, 30 yds.....	$12.75	$10.75	$9.25	$8.75

INTERNATIONAL. SOFT FINISH. DARK BROWN. Made to Meet (and Beat) Competition.

SIZES	C	D	E	F
International, 30 yds..	$4.50	$4.00	$3.75	$3.50

Size C is for Rods 8 ounces in weight. Size D is for Rods 5½ to 8 oz. in weight. Size E is for Rods 4½ to 5½ oz. in weight. Size F is for Rods under 4½ oz. in weight.

RODS EXTRA POWERFUL FOR WEIGHT may require 1 size heavier line than mentioned.

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H. L. LEONARD, the World's Best.....$53.00
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All made in patterns suited for **Trout Fishing** (Wet or Dry) and for **Bass and Western Steelhead.**

"INTRINSIC" TAPERED LEADERS
For Dry Fly—2 weights—7½ feet.....$0.60
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"ALBION" WADERS
(The Only Perfect Waders)
LEGGINS, Stocking Feet.....$13.50
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Bait Casting Tackle

RODS FOR BAIT CASTING
Split Bamboo 2-piece, 5¼ ft. long.
ALL HAVE EXTRA TIPS
PARAGON.....$ 6.50
PEERLESS (Im. Agate 1st & Tip)..... 9.50
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MILLS STANDARD (also 6 ft.)..... 27.00

REELS FOR BAIT CASTING
(Quadruple Multiplying)
JERSEY No. 2315, Nickel Plated.....$2.75
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CROWN SPECIAL Jeweled Nickel Silver.... 8.75

WE CAN FURNISH ALL MAKES OF BAIT CASTING REELS—AT MAKER'S PRICES

LINES—BRAIDED SILK 50-YD. LENGTHS
"MILLS' RECORD," Extra Hard, 3 Sizes, Drab or Black (Tests 13, 18, 23 lbs.).....$2.75
"MONARCH"-BLACK WATERPROOF, 22 lb. Test..... 2.25
"MONARCH"-BLACK WATERPROOF, 17 lb. Test..... 2.00

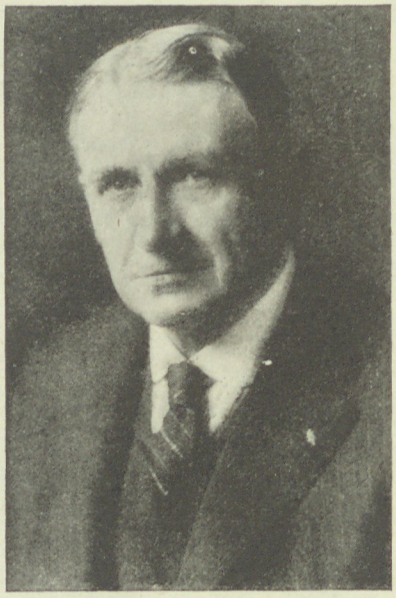
WE shall be pleased to greet you at our exhibit at booth No. 33, Walton League National Convention, Chicago, April 8, 9 and 10, 1926.

Waltonian Activities

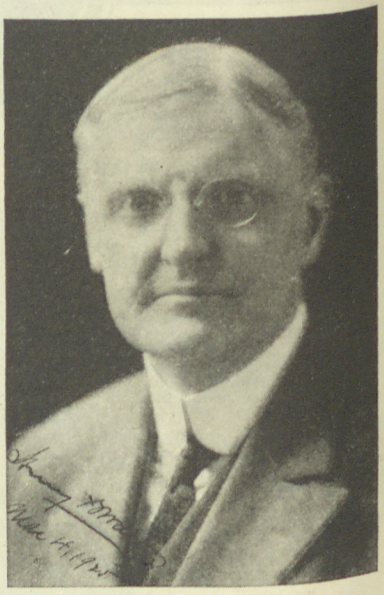
All Material for this Department Should be Addressed to

ED. H. PHILIPPI, National Executive Secretary

Illinois State Convention



Robert E. Scholes.



Dr. Henry Baldwin Ward.

We held the magazine until it was a day late to get the secretary's verbatim report of the Illinois Convention. It did not arrive. A complete report of this convention will be printed in the May issue of OUTDOOR AMERICA.
Editor's Note.

ROBERT E. SCHOLES, of Peoria, Speaker of the House of Representatives, was elected at the Illinois State Convention held in Champaign, Illinois, Feb. 24, 25, 26; Dr. Henry Baldwin Ward, Urbana, Editor of the Pollution Department of OUTDOOR AMERICA, was elected Vice President; Wm. B. Kemp, Joliet, re-elected Secretary and Frank L. Meyers, Pontiac, re-elected Treasurer.

Directors elected were A. B. Estock, Streator; C. B. Thomas, Champaign, and A. I. Buckwalter, Peoria.

The convention was held in the Elk's hall and a splendid program had been arranged by Champaign Waltonians.

A discussion of pollution was held in the morning session of the opening day and the delegates were taken for a tour of the new sewage disposal plant at Urbana during the afternoon session. This is the plant of which there was a complete story in a recent issue of OUTDOOR AMERICA. It is, indeed, a model of efficiency.

Jack Miner, whose Canadian bird refuge is known throughout the country, made the principal address at the evening entertainment in the University Auditorium. Governor Len Small and Senator McKinley made short addresses.

The Champaign Kiwanis Club entertained the delegates at luncheon on the second day and Chief Longlance, gave an entertaining address at the convention banquet in the evening.

Danville was selected as the next convention site.

THANK you, brother Ikes!

A better supply of good stuff came to my desk following my reminder last month that this department needs reports of activities from Division and Chapter officers to make it interesting.

However, there's still too much of "what we are going to do."

What *you* want to read here is results —and that's the kind of report we want you to send in.

It's great stuff to plan and pull off a big stunt,—membership drive, banquet, or to clean up some bad local condition, but unless you send me promptly, the complete report of what happened, you won't have the thrill that goes with seeing it in print in OUTDOOR AMERICA.

Our income from advertising is put to work for conservation.

Senator L. G. Bradford.

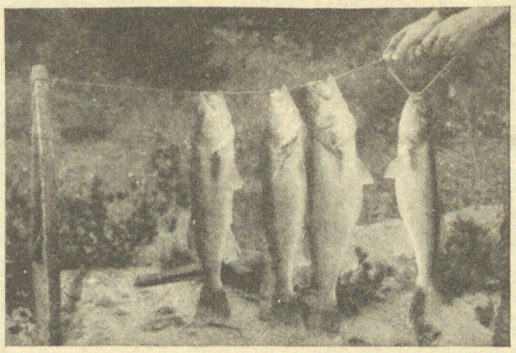
Upper left, Ed. F. Leever, Pres. Terre Haute Chapter; Upper right, Rev. W. H. Beachler, South Bend; Lower center, Harry Forbes, Terre Haute.

After all, new membership reports make the best reading, and the palm this month goes to the Indiana Division which at the time of going to press had an increase of 29 Chapters since January 1st, out of a total from all states of 169.

So then, Indiana has something coming, and I am going to let you have a look at a few of the "heavies" who are doing things in Indiana.

The Terre Haute Chapter meeting was reported in March OUTDOOR AMERICA. The photo's came along too late for that issue, so they are presented in this month's Waltonian Activities in recognition of their brilliant leadership.

The annual meeting of the St. John (No. Dak.) Chapter No. 2 was held on Feb. 4, 1926 and was attended by thirty two live wire Waltonians. The chapter's year's work was laid out with one single objective in view: That of creating a lake a mile and a half long having a long coulee with an ideal location



Wall-eyes don't come much bigger than 13-lb.!

I'll say they don't! I notice a 13¼ pounder got first prize in Field and Stream's last contest.

Mr. M. J. Burelbach, of Chattanooga, Tenn., sends the above photo, saying.

"I have an old Dardevle in my tackle box —been doing duty since about the Spring of 1920, if I remember correctly.

"One of its big jobs was once on a lake in Minnesota. I was fishing for wall-eyes and the four shown in the picture fell for the Dardevle. Compare the length of the fish with the buggy wheel and you can appreciate their size. The biggest weighed 13 pounds and would have been a prize winner had I entered it in the contest.

"The Dardevle and your remarkable Osprey line make a wonderful combination."

The three most popular sizes in which Dardevle lures come are shown here. There is another, the Huskie Devle, for muskies and other huskies, but he's too big to fit in this space. These are all illustrated in ten different color combinations, in a handsome catalog I'll be glad to send you.

You'll also find out all about my Notangle Spinners and Nostealum Insect Hooks, a few of which are shown here. They are worth their weight in gold when 'live bait is all they're rising for.

Osprey Dardevle lures and lines are handled by all good dealers. Send for catalog. If your dealer can't supply you, send his name with your order and we'll supply you direct, postpaid.

Osprey Silk Casting Lines are waterproofed so they can't rot —are braided so they shoot thru the guides like greased lightning, and even tho they cost no more than inferior lines, are guaranteed to last longer and give absolute satisfaction. Samples and prices free upon request.

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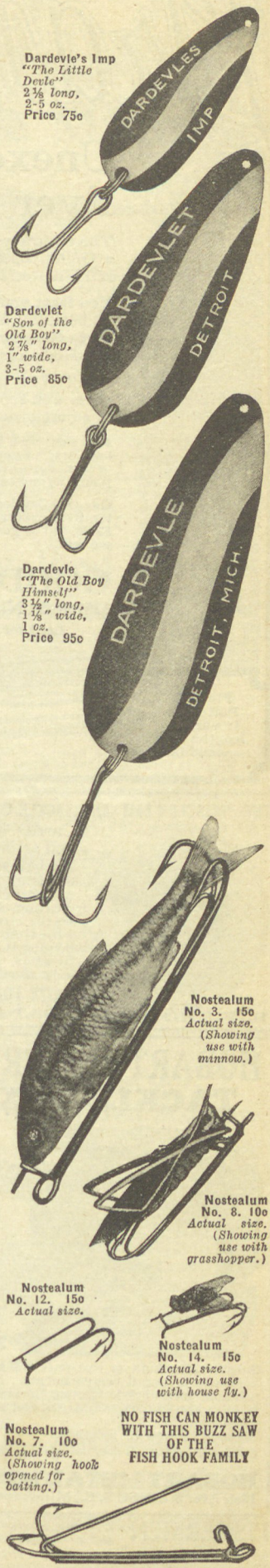

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Unexcelled Performance—Ever Satisfactory Service

The minute your Dealer shows you a GRANGER you realize that this is THE Rod for you!

You feast your fisherman's eyes on its beautiful finish and note the expert craftsmanship in every detail of this Rod's construction.

You feel its perfect action and balance. You sense its wonderful power in emergencies.

And you wish for the opportunity to at once test for yourself in your favorite lake or stream its evident ability to help prove your angling skill.

Our 1926 Catalog will tell you more. Send for it. Leading Dealers sell GRANGER Rods, but if yours cannot supply you—we will.

A. E. BUCK
of 322 N. Tennessee Ave., LAKELAND, FLORIDA,
SAYS:

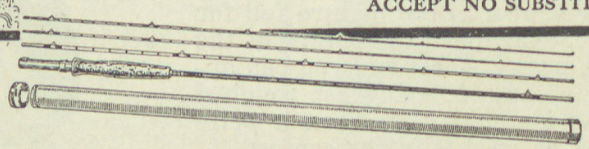
"I have caught hundreds of large-mouth bass with a rod I bought from you in 1921, and like your rod better than any I ever saw or fished with."

—

The best known anglers manywhere are using and praising GRANGER Rods.

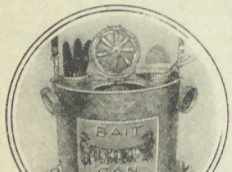
GOODWIN GRANGER & CO.
1257 East Ninth Ave. Denver, Colorado
Look for the Name "Goodwin" or "Granger" on the Reel Seat
ACCEPT NO SUBSTITUTE

Fly and Bait Rods in various lengths and weights



Prices range from $20 to $50 with bag and aluminum case

THE "MASTER" BAIT AND TACKLE CONTAINER



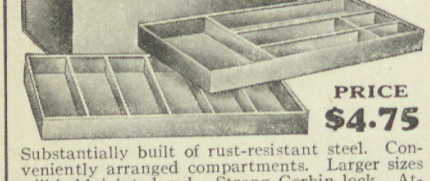
Carries both live and artificial bait. Metal made in one unit. Equipped with air chambers. Automatic air and water circulation. Floating and Non-floating Models. $1.50 to $4.50, complete with shoulder strap.

CANOES, HUNTING AND FISHING BOATS

Light, durable, and safe. Made in sections for easy transportation. One section nests in the other. Equipped with air chambers. Securely braced with channel iron ribs. Any Model. Any Size. $39.00 and up.

WRITE FOR CIRCULAR No. 6 Illustrating Bait Cans, Boats, and Auto Ice Chests.
H. F. THOMPSON BOAT & PATTERN WORKS, Inc., DECORAH, IOWA

HOBART WATERTITE TACKLE BOXES



K-2
14" x 6" x 6½"
PRICE $4.75

Substantially built of rust-resistant steel. Conveniently arranged compartments. Larger sizes will hold jointed rod. Strong Corbin lock. Attractive appearance. Guaranteed absolutely water tight.
Made in 14" and 22" lengths.
Catalog on request. At your dealer's or by mail postpaid.

HOBART METAL MFG. CO.
16th Ave. & 8th St. S. E., Minneapolis, Minn.

Backlash!
Maybe it's not your fault—Read this book.

EVERY caster dreads a backlash. Sometimes you get them all too frequently, no matter how carefully you wind and thumb your reel. You'll even get them with an anti-backlash reel if you don't use the right kind of line.

Maybe it's not your fault that you get backlashes. Send for a copy of "Fish Stories" and find out how lines are made—what features to look for when buying a line for any purpose. It's fully illustrated with magnified pictures of different lines, showing the different materials, twists, braids, and finishes.

Also, there are stories by such well-known writers as Newton Newkirk—true "Fish Stories" that you'll want to read and keep. A copy of this book will be mailed you free. Just send a post card now—the edition is limited.

Sent FREE to fishermen anywhere
ASHAWAY LINE & TWINE MFG. CO.
Box 435 ASHAWAY, R. I.

FISHERMEN 3c brings anybody samples of our guaranteed silk and linen fish lines. Casting and trolling. Highest quality. Newer goods, and for less money.
SILKLINE CO., Dept.P, Pekin, Illinois

OLD FISHERMAN'S 1926 CALENDAR
"tells when the fish bite"
USED BY THOUSANDS
PRICE 25¢ 5 FOR $1.00
O. F. CALENDAR, Box 505H, Sta SPRINGFIELD, MASS.

for a 12 or 14 foot dam, so that a lake may be built.

"We hope to have a delegate at the National convention," says Secretary Stiles.

Fremont Wyo. Game Ass'n Now I. W. L. A.

Three years ago the Fremont County Wyo., Game and Fish Protective Association was organized. At a meeting last month instead of the election of officers for the Fremont Game Protective Association the sentiment of the meeting took a turn in another direction.

Here F. H. Holt, of Lander, one of the active members of the Fremont Chapter described the principles of the League, and the method by which a chapter could be organized in Fremont County and affiliated with the National Organization.

After discussion of various matters in connection with the past and future activities of the organization a motion was made and seconded, and carried unanimously, that the Fremont Association withdraw from affiliation with the state Fish and Game organization and take it out of politics.

Bicknell, Indiana Chapter was organized last month with a nucleus of 35 members.

Rice Lake, Wisconsin, held a get-together banquet last month with an attendance of 300.

Neligh, Nebraska Chapter entertained representatives from ten nearby chapters, at a recent banquet, attended by 300.

The Boise City, Oklahoma Chapter has been started with 47 Charter members.

"We have one male out of every three in our town," says President Brown, of the Merrill, Indiana Chapter. It has now 194 members as the result of a recent membership drive.

A fly casting tournament and indoor rifle contest was held on March 1, by the Englewood, Colorado Chapter. The tournament was open to everyone.

WARREN PA., CLOSES BIG DRIVE

The final tally in the Warren Pa., drive for memberships was chalked up at a recent meeting and showed paid up memberships reported by team workers, received through mails, and the new memberships since the first of the year, brought Warren's total away over the coveted 400 set as the goal, and came to more than 450.

A fine casting rod donated by Val Genge, and a reel donated by President Frank Mount were earned by Dr. F. S. Richards, with 31 memberships, and Carl Russo, who came a close second with 24 memberships.

REMER, MINN., HITTING THE BALL

At a recent meeting of the Remer Minn. Chapter, the following resolution was adopted.

Results mean more advertising. Help our advertisers get results.

"Resolved that the Remer Chapter of the Izaak Walton League go on record in favor of prohibiting all spring spearing of fish of all kinds."

Says Secretary L. T. Patten. "Our Local Chapter is fighting, by fair means only, a scheme privately backed, to drain a large wild rice lake just a few miles from town, covering 2600 acres, and considered one of the best duck lakes in Minnesota."

The Muskegon Mich., Chapter, still a youngster, is planning an active spring program for clean sportsmanship.

The Lincoln Neb., Chapter held its first annual banquet last month with an attendance of 175. Governor McMullen in his address pledged his support in the League's activities.

Says Secretary L. M. Campbell. "This was the first thing of its kind given by the Lincoln Chapter and as a result some of the people were a little loath to attend, not knowing exactly the principles of the organization. Now that the good work has been done I firmly believe that another banquet of this sort would easily draw a crowd of four hundred people."

Freeport Ohio, Chapter No. 78, has started a campaign whereby it will establish a park for its members.

A lake of approximately two acres will be formed and stocked with fish of all kinds.

Columbus, Neb., Chapter staged a get-together meeting recently, drawing 200 sportmen from surrounding towns.

Punx Sutawney, Pa., Chapter has been formed with a starter of ninety-five members.

PITTSBURGH LISTENS TO POLLUTION TALK

At a special meeting of the Pittsburgh Chapter on Monday February 8th, Dr. R. D. Leitch, of the U. S. Bureau of Mines at Pittsburgh, who has been devoting much time during the past year to the study of methods of eradicating coal mine wastes from streams, spoke on that phase of Stream Pollution. Dr. C. G. King, professor of chemistry in the University of Pittsburgh, also spoke on this subject from another standpoint.

Hon. Arthur C. Dale, of Bellefonte, Pa., recently appointed special counsel for the State Sanitary Water Board, addressed the chapter on proposed methods and plans to enforce the laws now on the statute books relating to stream pollution.

After the conclusion of the discussion on the subject matter of the meeting, Dr. W. H. Kirk, exhibited an interesting film. Dr. Kirk is an enthusiastic sportsman and wild life photographer.

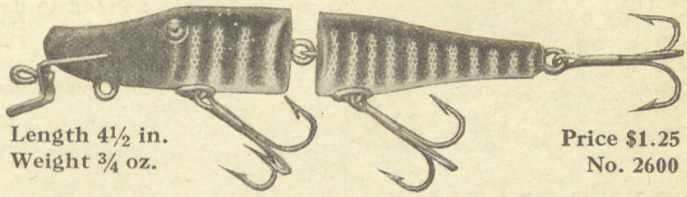
Sharon, Pa., Chapter opened its activities with a motion picture talk by Seth Gordon on March 4th. Every member of the Chapter is a member of a Committee.

Ozark Ripley, addressed 700 persons at a meeting given by the Findlay, Ohio Chapter last month.

Valparaiso, Ind., Chapter Secretary Thatcher reports increase in member-

Life-Like—and Peppy!

New Jointed Pikie Minnow

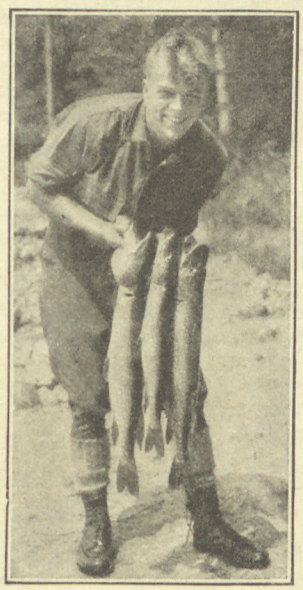


Length 4½ in.
Weight ¾ oz.

Price $1.25
No. 2600

This new Creek Chub Creation—the Jointed Pikie Minnow—is the last word in our True-To-Nature lures. No other lure ever made can compare with it in Beauty and peppy action. It looks and acts as near like the natural, living, breathing, wiggling Pikie Minnow—as human skill can make it.

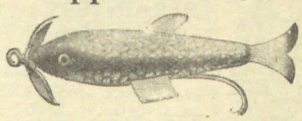
So smooth, so sensuous is its snaky movement through the water, that even the large, old, wise Bass, Pickerel, Pike and Muskies rush madly after it—and strike to kill! They just can't leave this wicked, wiggling fooler alone. Be sure you get one at your dealer's or direct—so you too, will Catch More and Bigger Fish on that first fishing trip!



GREAT NORTHERN PIKE
Caught by Mr. Norman Miners, of Chicago, on the Famous Pikie Minnow, last fall.

New Fly Rod Lures

Cripple Minnow



Length 2¼ in. No. F-90 **Price $1.00**

Actually represents an injured minnow in looks and actions! A very light lure with flexible fins and tail! Spinner at head! In water it glitters like a natural silver side wounded minnow! Made only in New Silver Flash finish! A guaranteed Killer!

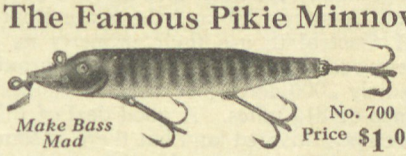
"Pop-it" Lure

Length 3¼ in. No. F-100 **Price 75c**

A very light little lure with Cork body, buck tail and mallard feathers! Jerking makes it pop around on surface—with lots of fuss which Bass can't resist! Fast pulling makes it wiggle like minnow hustling for its life! We guarantee it to be a deadly killer!

Free! A Famous Pikie Minnow to every one who sends us a first class original fish photo showing a catch made during the 1926 fishing season! Also $25 for the best photo accepted, $15 for the second best, and $10 for the third. Get plenty of outdoors in the photo! We will be the judges. ***Send 'em in!***

The Famous Pikie Minnow



Make Bass Mad

Length 4½ in.

No. 700
Price $1.00

Weight ¾ oz.

Floating Injured Minnow

Weight ½ oz.
Length 3½ in.

No. 1500
Price $1.00

You know you're really "Goin' Fishin'" when you've got these two fish foolin' wonders in your kit! Both are deadly killers wherever fish are found!

See Other Creek Chub Advertisement in this Issue—$100 for a name for new Wiggling Spoon!

Get any of these real fish getters from your dealers or direct from us! Every one guaranteed to be satisfactory to you in every respect or money refunded! Dealers sell our baits under this guarantee and we protect them!

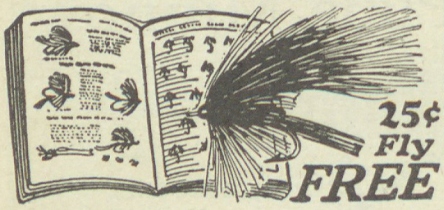
Our New Beautifully Colored Catalogue Sent Free Upon Request!

CREEK CHUB BAIT COMPANY

324 S. Randolph Street - - GARRETT, IND.

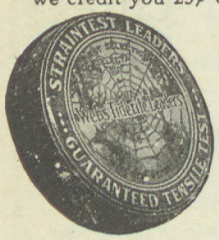
Weber of Stevens Point

"The Fly-Tackle Capital of America"



60 page Color Catalog Not Free:

You must send 25¢ for this sumptuous book, beautifully illustrating all the items of Weber Lifelike Fly equipment—staples and exclusive specialties — splendid American designed goods for American style fly fishing. *But you get your quarter back* TWICE! Because with the book we send you FREE any 25¢ fly (our choice, or you name pattern, color and size.) Then besides, if you order goods from this ad or the book, we credit you 25¢ on the order!



Our Value Supreme STRAINTEST Level Leaders

In practical round metal box with moistener.

6 Trout, 6 ft. - $2.00
6 Bass, 4½ ft. - $2.00
6 Salmon, 9 ft. - $6.30

"Acklebug"

Floating trout or bass lure. No hard body or head to interfere with setting hook. Light, life-like, easy pick up. Trout sizes, 60¢ each. Bass, 65¢.

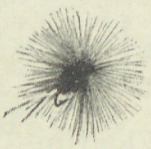
12 Patterns

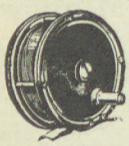
Only authorized makers of DR. HENSHALL'S own design Fly Rod Lures — trout and bass.

"Acklenat" Early Season Dry Fly

Highest riding, quickest drying, longest floating. Ostrich non-soaking bodies. Only on Numbers 16 and 18 Model Perfect hollow-point hooks.

12 patterns, eyed or snelled. Per dozen, $2.00.





Weber's Special Perfect Balance Fly Reel

Exclusive design—perfection from every standpoint. Black composition. Bronze bushed, adjustable click. Each, $7.00.

Henshall Vacuum-Dressed Line

Most satisfactory fly line made; dressed all through. No kink breaks. Should last years. Brown color. Only in 100 foot lengths (good idea, that!) English standard sizes, C — $5.00, D — $4.50, E — $4.00.

Deer-Fat Line Dresser

Genuine deer tallow preparation saturated in felt pages of neat leather-covered book. Floats line; indispensable for dry fly — fine for bait casting. Preserves line as only deer-fat can. Prevents water-logging; line runs more smoothly and does not carry water, keeping hands dry. The slickest little gadget ever tucked into your kit. Each 50¢

All goods prepaid.

WEBER LIFELIKE FLY COMPANY
STEVENS POINT, WIS.
"If Weber makes it, a fish takes it"

ship which promises 250 by the time the National Convention is held in Chicago in April. "A recent membership drive is bringing them in," he says.

Danville, Ill., Chapter put on a talk by Jack Miner last month, and drew a crowd of 900.

Cedar Rapids, Ia., Chapter publishes monthly, an interesting four page circular on local, state and National League activities that is a credit to its progressiveness. It seems to be a self-supporting publication.

Tacoma, Wash., Chapter was organized on February 10th.

The Clarion, Pa., Chapter has grown from 77 charter members to a total of 133 since it's formation in January. This little town is situated along the Clarion River, long one of Pennsylvania's picturesque and famous beauty streams, now polluted from one end to the other by industrial plants. Go to it, Clarion Ikes.

"WALTON DAY" AT TWIN CITIES AUTO SHOW.

The St. Paul and Minneapolis, Minnesota Chapters staged their annual frolic at the Twin City automotive exposition on February 10, which was "Ike Walton Day." The two chapters entertained more than 1,000 sportsmen from all sections of the state.

Secretary Ken. Wright reports that through the Chapters' representation with a booth at the Auto Show, more than 100,000 individuals were reached with a Waltonian Message.

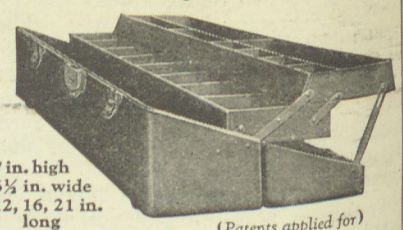
An elaborate program for the "Midnite Frolic" was announced by Ken Wright, and presented in a dodger printed on butchers paper with cartoons and lettering in school boy style, making altogether a strong appeal to the Twin Cities Ikes.

FOND DU LAC'S NEW GAME RESERVE

Fond du Lac, Wisc., Chapter No. 2 is fostering a wild life reserve within two miles of the City of Fond du Lac, and President F. D. Candlish and Secretary W. E. Tack have obtained the consent of seventeen farmers, the Town and Country Club and the State Board of Control to use their property as a reserve. This area contains approximately 2000 acres and has a circumference of 8¼ miles. A good deal of this area is cultivated land but there is some great cover on it for the different kinds of upland game birds such as prairie chickens, partridge and pheasants. There are several flocks of prairie chickens now on this area and the Chapter intends to stock the reserve up with ring-neck pheasants and possibly the Hungarian partridge. The farmers are reported as being enthusiastic about the proposition and have promised to cooperate with the Chapter in taking care of the birds.

The members of this Chapter believe this reserve will prove to be as great a reserve as the reserve this Chapter maintains for the aquatic birds in Lakeside Park. This reserve was set aside

It's Easy to Get--



7 in. high
6½ in. wide
12, 16, 21 in. long

(Patents applied for)

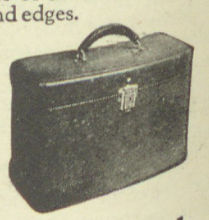
Open the Lid--Pick It Out

No matter which tray it's in—even way down in the back corner in the bottom—there's that reel or that new spool of 12 lb. test—whatever you want, right there in front of you.

The Trays Swing Back

One hand—open the lid. *The trays automatically swing back*, and are supported there. Help yourself, shut it up—all with one hand. And it's a rugged box, but a beautiful job; made of auto body steel, rounded corners and edges.

Has a dozen other advantages you'll want to read about in our folder.



$5.75, $6.75, $7.75, depending on length. Prices slightly higher on Pacific coast.

Bronze Baits the *New* Style

Here's the new style in lures—lures made of hollow bronze. Shaped as an artificial minnow *should* be shaped. Looks like an artificial minnow *should* look. Acts as a minnow *does* act—a hurt minnow at that. All the advantages of a live minnow—none of the disadvantages. If your dealer isn't stocked yet, write direct, giving his name.

Bassy-Getum — Wt. ⅝ oz.

Piky-Getum — Weight ½ oz.

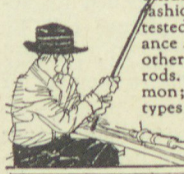
The Outing line also includes a number of other items for the fisherman. Send for folder on the complete line.

(Don't miss the exhibition at the convention. We'll see you there.)

Outing Mfg. Co.
558 Jackson Blvd., Elkhart, Ind.

CROSS FISHING RODS

Hand-built split bamboo



KNOWN to particular anglers the country over for fineness unsurpassed. Hand built. Hand fashioned. Rigidly inspected—tested to give strength, proper balance and resiliency not found in other American, or even English rods. Fly-rods for trout, bass, salmon; bait-casting rods, also all types of salt water rods.

Write for catalogue!

CROSS ROD COMPANY
Division of South Bend Bait Co.
158 Commercial Street — Lynn, Mass.

Don't be afraid to tell our advertisers you saw their ads in OUTDOOR AMERICA.

through the cooperation of the Park Board and the city officials, and the results were astonishing.

Hymera, Indiana, Chapter recently fostered a drive at Farmersburg which resulted in a new Chapter being formed in that community.

Webster City, Ia., Chapter has turned over a new leaf this year and decided to accomplish several important things. It aims to enlarge the membership of the local chapter, prevent pollution of the Boone river and raise the water level of the Boone river to make for better fishing conditions. The membership campaign is progressing under the direction of W. F. Powers, newly elected president.

"Now You Tell One"

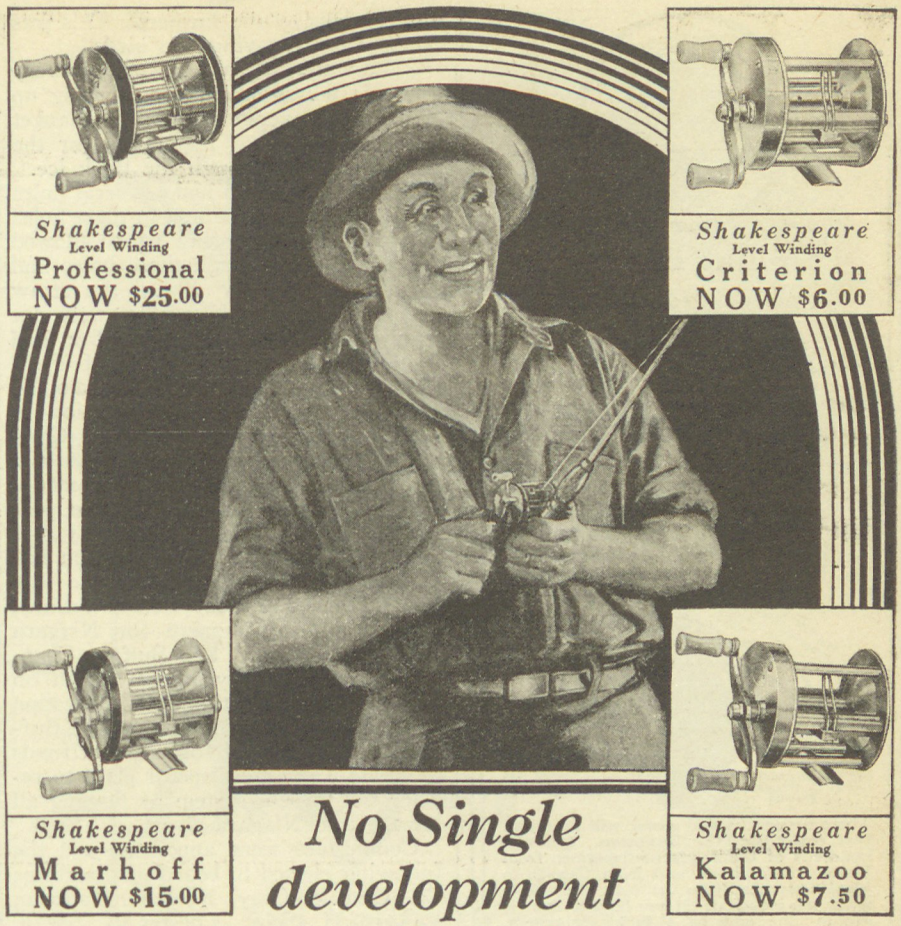
In India a fish has been found whose food consists of insects which are first shot with a drop of water hurled from the mouth. This extraordinary fish, says Nature Magazine, has been kept in captivity by European aquarists and given ample proof of its marksmanship.

Janesville, Wisconsin, Story Comes In

Janesville, Wis., Chapter reports a get-together meeting on Feb. 9, with an attendance of 300. An illustrated lecture on "Wild animals at Home" by Col. Philip A. Moore of the U. S. Bureau of Commercial Economics was the feature of the banquet. A resume of Janesville's activities since it was organized with 41 members on Jan. 30, 1923, shows among other things that this chapter was the third in the state to organize, was instrumental in opening Lake Koshkonong and Rock river to carp seining, to bring game fish and vegetation back, had the fishing season in Rock river in Rock county changed to conform with that in nearby counties. Helped organize the Edgerton, Beloit, Fort Atkinson and Evansville chapters. Planted fry and fingerling in nearby waters, helped in putting over the Winneshiek preserve, sending committee to hearing at Madison. Successfully opposed opening of Rock river for clamming, joined with Rock river joint committee in succeeding in stopping hoop net fishing on Rock river between Koshkonong and Watertown to halt killing of fish.

G. E. Sherman, Secretary, Huron, So. Dak. Chapter submits this newsy contribution.

"Due to a lot of snow and ice that covered this section of the state it was found upon investigation by members of this Chapter that thousands of pheasants in this section of the country were in need of feed and that something had to be done at once. A special meeting was called and the outcome was that about twenty-five members donated their time and use of their cars to distribute grain near straw stacks and where there was no snow. About three hundred bushels of grain were put out by the members and several hun-



No Single development has contributed more—

Of recent years, no single development in fishing tackle has contributed so much to the joy of angling as the level winding feature of the Shakespeare Reel.

Built like a watch—accurate to less than a thousandth of an inch in every dimension—the Shakespeare Level Winding Reel is the highest achievement of mechanical perfection.

With a Shakespeare Rod and one of the above Shakespeare Reels you are equipped to experience the fullest measure of enjoyment from the day's sport.

Send for the catalog which describes the complete line of Shakespeare Reels and other fine fishing tackle, all of which is priced to accomplish the Shakespeare ideal of bringing the finest fishing tackle within the reach of every angler.

SHAKESPEARE COMPANY
489 Pitcher St.
KALAMAZOO, MICH.

Happy Days Ahead — Shakespeare Company — Fishing Tackle — Kalamazoo, U.S.A.

Shakespeare

FISHING TACKLE

World's Finest Tackle at Lowest Prices

Shakespeare Co.,
489 Pitcher St.,
Kalamazoo, Mich.
Please send me your new catalog.

Name.....

Address.....

City.....

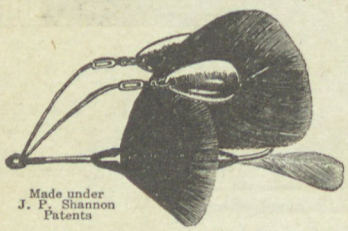
"Smiling Bill" Says

(With apologies to Abe Lincoln)

"You can use any old bait and fool some of the fish some of the time and some of the fish all of the time, but when it comes to *fooling all the fish all of the time* you just naturally got to use the good old Shannon and that's all there is to it."

BILL JAMISON.

THE SHANNON TWIN SPINNER



Made under J. P. Shannon Patents

There never was and never will be a bait that could beat the Shannon. Literally hundreds of thousands of fishermen from Maine to California and from Canada to Mexico can testify to the fact, that there never was its equal. If you haven't tried it get in line and be a lucky fisherman. Anybody can fish with a Shannon. If you can't cast, Troll with it. You can fish the thickest weeds with ease, and that's where the big boys hide. You can fish deep water or shallow. Fish any place the fish are. That's the big reason for its remarkable success. For attractiveness, nothing can beat it. It's in a class by itself.

Made with red, yellow or white feather fly and natural, red, white, yellow or black bucktail fly—Price, each, 85 cents.

Barbless Hook Style Same Price

The Jamison Special Line is soft and smooth running. Easy to cast and easy on your thumb. Gives the best service of any soft braided line. The easier the line is to cast the more casts you make and the more fish you get. Try it and be convinced. Order one for your Shannon. A good bait deserves a good line.

No. 5, 12 pound test, 50 yd. spool, each $1.00
No. 4, 16 " " 50 " " " 1.20

Have you seen our MOVING PICTURES OF FISHING

Thrilling pictures of Trout, Bass, Muskellunge and Salmon taken on Barbless Hooks.

Write for full information.

Send for catalog of Shannon Baits, Coaxer Baits, Casting Lines, Barbless Hook Trout and Bass Flies, etc.

THE W. J. JAMISON CO.

Dept. W 739 So. California Ave.

CHICAGO, ILL.

dred bushels by the farmers. This was the means of saving the birds.

"The water at Lake Byron was very low this winter and after freezing up the ice was covered with a thick blanket of snow making it impossible for the fish to get air through the thick ice.

"We hired men to make several holes about ten feet square and in these holes put corn stalks and straw which allowed the air to get through these holes and were kept open by piking the straw every day. After these holes were put in we found that very few fish had smothered and died for want of air."

At a recent meeting the Buffalo, N. Y., Chapter adopted a resolution to erect a memorial fountain at the Casting Pool, South Bay of Park Lake. The fountain will be dedicated to Commissioner of Parks James P. Moore provided that city official effectively and permanently cleans the lake which has become filled with silt during the past few years. President Peters outlined a program of campaign for Niagara river purification. The Buffalo Chapter will ask the city officers to put on the election ballot this fall a question for referendum to the voters that Buffalo shall bond itself for sufficient funds to create a sewage disposal plant to replace the present system of flowing all sewage into Niagara river.

Committees were appointed and the following elected to board of directors: Dr. Earl V. Gray, Buell G. Tallman, Edward H. Scott, Chester B. Smith, Prof. W. P. Alexander, Sherman Enoch, Edwin C. Sutton, Chauncey J. Hamlin, William C. Bailer, Henry Seilheimer, Joseph T. Snyder, Edward L. Thomas, Charles Wesley, Sheriff Frank W. Tyler and S. V. R. Spaulding, secretary.

Will County, Illinois, at Joliet, Chapter sold 1350 tickets to a McMillan lecture illustrated by several reels of Arctic motion pictures last month. At $1.00 per plate the Chapter cleared $850.00 and voted a liberal donation to the Boy Scouts and Orphans' home.

VINELAND, N. J., STEPS ON IT.

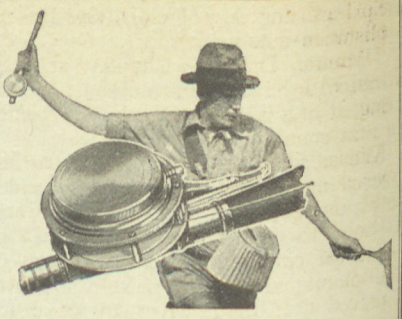
A meeting of the Vineland, N. J., Chapter was held in the club house of the organization at Union Grove recently, was the first held under the Scholz regime and was the largest attended in the history of the organization.

Injection of young blood into the local chapter has resulted in a number of marked improvements despite the fact that it has been in power for only a short time, says Secretary Master.

Plans for the construction of a building with twice the floor space as in the present club are in the hands of a committee. The Chapter went on record as being solidly behind Bill H. R. 10269.

Rock Sprnigs, Wyo., Chapter organized Jan. 19, 1925 now has a paid up membership of 245 Seniors and 38 Juniors.

Through the sponsorship of the Chapter and its members, four other Chapters have been organized, namely, Reliance, Wyo., Winton, Wyo., Superior,



Fishin' in a Well

ONE of the funniest sights is a great big man tryin' to hold on to the little handle on a fishin' reel and grindin' for all he's worth.

It's like they used to wind up the "Old Oaken Bucket". 'Taint fishin', that's all.

There's only one real way to fish and that's to play your fish on your finger tip. Then you get the real thrill. You feel every jump, every turn.

MARTIN AUTOMATIC FISHING REELS

Of course, you must have a Martin Automatic Reel, then you don't need to bother about the line. You pull in some line, touch the brake lever and zip—it's wound up. No snarls, no knots, no line caught in the bushes or layin' in the bottom of the boat. If you want to pay out line, just touch the lever and strip it off. No trouble—it works like a top.

Yes Sir—When you fish this way, you really fish. It's sport, and an Automatic doesn't cost much—a Number 2 model that holds 90 feet of G line only costs $6.00 with a line protector ($5.00 without it).

You can't lose anything because if you don't like it you get your money back.

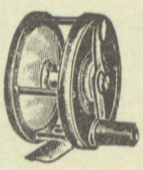
If your dealer can't show you a Martin, we will send you a catalog free of charge.

Martin Automatic Fishing Reel Co., *Inc.*

400 Main St. Mohawk, N. Y.

FISHING TACKLE

Deal Direct with the Manufacturers



Tackle is either good or no good — there is no "fair-to-middlin'." When playing a fish you can not afford to have your mind diverted by worrying whether your rod will stand or your reel fail. Therefore only the best is good. The unquestioned superiority of Edward vom Hofe Tackle has been a by-word of the experienced fishermen of the world since 1867.

2c stamp for 178 page catalog.

EDWARD VOM HOFE & COMPANY

97 Fulton Street New York City

THE DRONE

With the Lifelike Action Spells Success to All Who Use It. Ask Your Dealer for It

L. B. HUNTINGTON ANNAPOLIS, MD., P. O. Box 406

Our Advertisers help us, let us help them.

Wyo, and Green River, Wyo. Rock Springs has some worthwhile accomplishments to its credit.

Monon, Indiana, Chapter was organized with 38 members. They are shooting at a 150 mark by July 1, 1926.

Says A. L. Scott, President of the Kansas Division. "A little less than a year ago Pittsburg (Kas.) Chapter of the Izaak Walton League sponsored Boy Scout Troop No. 10. This troop has been under the direction of W. F. Conner, Scout Master and has more than doubled its membership since taken over by the Pittsburg Chapter. Occasionally the directors meet with the troop for a wienie roast. The boys have been taught all the things that go with scouting and the interest is keen."

Onalaska, Wisc., Chapter with a membership of 90 is active in promoting necessary measures and regulations for curbing violations.

Angler's Notebook

(Continued from page 18)

those who like metal rods, an actionable steel is fine. The reel, a single-action, large size, to render retrieving line rapidly easy, or an automatic for the heavier rods. There is rare sport in playing a two-pound rainbow with a good, dependable automatic. When you remember that a reel should weigh approximately once and a half as much as the rod, you will understand why the automatic lends itself admirably to this class of fishing. The line, a double tapered, if you like to go in for angling subtleties as I do, or a level can be made to serve. Not too long a leader in my experience, a six-foot being long enough, tapered if you care to be exact in Nature duplication, but be certain your leader is good stuff.

I cannot go into flies today, though the rainbow is not overly particular, but very suspicious, and lightning on the rise. He will rise, touch and reject before you have a chance to strike, unless you are hep to his ways and tricks. With me where there is white water and pools, Royal Coachman, dark wing, is standard; Wickham's Fancy is always liked, Hare's ear and Red Hackle are winners; Black Gnat or Prince, very fine, day in and day out. You will need to govern size by stage of water. Low and clear water calls for small flies, smaller the better; while high and somewhat murky water demands larger flies. I call a No. 16 very small, and 8 large. Let me tell you, right now, that a two-pound rainbow on a No. 14 hook will keep you guessing. Here's to the rainbow, the greatest freshwater fighter that swims!

CAMOUFLAGED LEADERS

OF course you know 'em, though perhaps under some other name. They are decorated in a way to remind a gob of the ships during the Great War, purple, green and yellow. The wonder is that under ordinary water conditions they are almost invisible to the human eye, whatever may be true

Ask for-

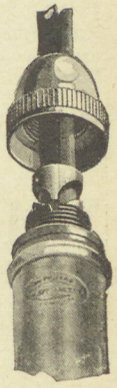
No. 103 South Bend Steel Rod
with the Locking Joint

A TRULY superior steel rod of strength, proper balance and pliability that will withstand the severest tests.

South Bend Steel Rods have an exclusive, patented *locking joint* feature making them easy to assemble—at the same time absolutely insuring the proper alignment of guides. Rod joints cannot creep, slip or twist out of alignment or stick when taking down.

Made of heavy gauge, special, crucible steel. Bait-casting lengths 3½ foot to 5½ foot. Fly-rods 7 to 9½ foot. Ask your dealer for No. 103 priced at $6.00.

At side is locking joint feature. Shows how each joint fits and locks into proper position. An exclusive South Bend feature.



Locking Joint —feature of South Bend Steel Rods

The Finest of Split Bamboo Casting and Fly Rods

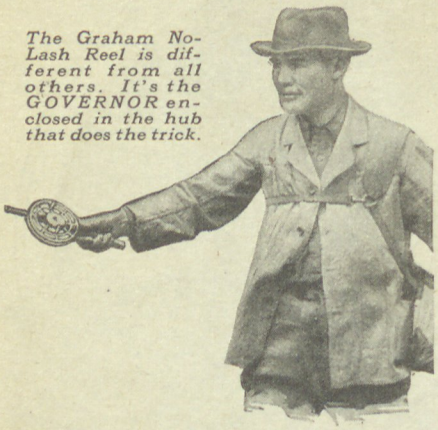
South Bend Split Bamboo Rods are light and flexible with a whip-like action that is resilient, yet which has power to carry your bait far with little effort. Throughout in stock, design and workmanship, they are the finest which scientific engineering and conscientious effort can produce.

No. 10 shown here is a two-piece rod in 4½ to 5½ foot lengths. Priced at $10.00. Others from $7 to $25. Fly Rods from $12 to $30.

Write for *"Fishing—What Baits and When"*. Shows and describes these rods and South Bend Tackle. A 120 page book full of fishing information. Gives details on our $2000 Fish-Photo contest, open to all.

The trade-mark known for SOUTH BEND QUALITY TACKLE BAIT COMPANY *dependable tackle by all Anglers*

SOUTH BEND BAIT CO.
1307 High Street · South Bend, Ind.



The Graham No-Lash Reel is different from all others. It's the GOVERNOR enclosed in the hub that does the trick.

1,000,000 CASTS

beyond experiment—

AND NOT A BACK-LASH YET! The Graham No-Lash has never back-lashed. It never WILL back-lash, regardless of conditions For the rankest amateur or the seasoned fisherman, the tangled mass of line is stopped forever by the exclusive Graham GOVERNOR CONTROL.

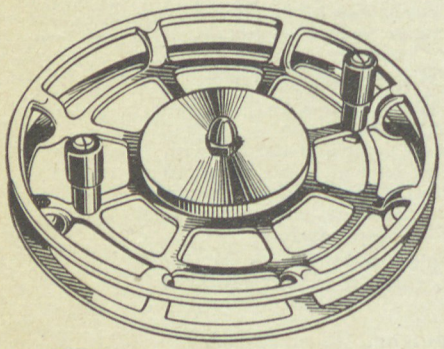
Not "just another" anti-back-lash reel. A DIFFERENT principle, a BETTER reel. A reel that does everything that ALL others do—PLUS the fact that it CAN'T back-lash!

Ask your dealer to show you more about it.

WRITE!

This new illustrated Graham booklet will tell you all about this superlative reel and its GOVERNOR CONTROL. It's FREE—write today.

GRAHAM REEL CO.,
WINDFALL, INDIANA



Graham No-Lash

"THE GOVERNOR DOES IT"

of the fish's. I know this, given low, clear water and suspicious trout, using the multi-colored leaders will increase the catch. They have one drawback—the angler can't see his cast at all, and if afflicted with poor sight he will curse the leader time and again, but take more fish. If you don't know their possibilities, you better try 'em out.

WHEN IS A PICKEREL A PICKEREL?

NO single question more excites anglers than the correct nomenclature of members of the pickerel family. Now, get this: there is no such thing as a pickerel family—it is the pike family, and there are but three members in the Middle West—pickerel, great pike and muskellunge. The book-name for the second gentlemen is Great Lakes pike, but we will save time and confusion if we will just drop the lakes and call him great pike. Now, a great pike stays a great pike all his life—never was a pickerel. The pickerel is a small fish, the species found in the Middle West seldom if ever exceeding a pound or so, though there is a pickerel in the East that grows larger. Don't bother your head about the color of any given member of the family, for it leads to confusion. Remember this, and this only: both cheek and gill-cover of the pickerel is fully scaled; the cheek and upper half of gill-cover in the great pike, and only the upper half of both cheek and gill-cover in the 'lunge. Yes, there are "gray 'lunge" and "tiger 'lunge," 'lunge found in the Great Lakes as well as in North Wisconsin and Minnesota. The grey form is no more a true muskellunge than is the small-mouth bass a true bass.

THE BLACK BASS NOT A BASS

WHICH leads me to say that the black bass is not a bass at all, but a sunfish, closely related to the sunnie of boyhood, the "punkin' " seed of old. The true basses are salt water fishes—that is, all save one, the so-called white bass, found in the Mississippi Valley, is a close relative of the striped bass o' the ocean, and a bass. No, the black bass is not a bass, but a sunfish. Who cares where he belongs, ichthylogically speaking? He sure is the one great fighter in America, America's chief contribution to the fish-wealth of the world.

FISHING TIME IS NEAR

SO we must be setting our tackle-house in order, lest the advent of trout fishing finds us unprepared. This getting ready is almost as much fun as the fishing. Rods should be gone over carefully, all frayed windings replaced, and loose ferrules re-set. That's fun. Then the stock of flies and hooks must be looked to. Never wise to put off getting flies until last minute, when the stock has been pawed over and depleted. Oh, there is much to do, much, for the South Wind blows softly and fishing lies just around the corner.

Luckie is right!

~a quality rod at a moderate price

Here's a rod as good as many that sell for twice the price—Luckie Steel Fishing Rod. It's made by the same concern that builds the famous Bristol Steel Fishing Rod. It's exceptionally strong and in every way a quality rod—but at a moderate price. There's a style for every kind of fishing. It's everything the name implies—LUCKIE. WRITE today for free catalog describing all models. The Horton Mfg. Co., 54 Horton St., Bristol, Conn. Pacific Coast Agents: The Phil B. Bekeart Co., 717 Market St., San Francisco, Cal.

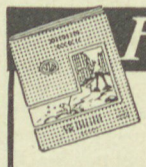
Luckie Bait Caster—$4.25

No. 600 Luckie Bait Casting Steel Rod—3 joints—4 to 6½ feet. Cork handle. An excellent all around rod. Black Enameled. Weight from 6½ to 7¾ ounces. Price $4.25. Specify length wanted. If your dealer can't supply you, order direct enclosing price.

LUCKIE

TRADE MARK

Steel Fishing Rod



Fishing Tackle

Send for Your Catalog Today

WE know you'll enjoy this Fishing Tackle and Camping Supplies catalog—it's written for *you*—we'd like to send you a copy today!

Our reputation for quality, *low prices* and service is 35 years old—we're the largest exclusive sporting goods store in the Middle West.

Buying by mail from us, with our 24-hour service, is as satisfactory as over the counter—and you get the pick of the market, *at guaranteed lowest market prices.*

Send Coupon Today—Catalog 68B—Free

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When writing to Advertisers give credit to our Magazine.

Scientific Angling—National Association of Scientific Angling Clubs

Edited by
FRED J. LANE

OTHER things being equal, the length of the cast varies directly as the initial velocity imparted to the weight. Now, as the rod is the only part of the tackle which aids the muscles in imparting said velocity, I mention it first.

Theoretically the distance rods should be very short and stiff with a quick taper, large at the butt and small at the tip. Short, because the caster can drive it through the arc of the cast with greater velocity. Stiff, so there is a direct transmission of power and a quick vibrationless stop at the end of the drive and because, the farther from the handle the weight of the rod lies, the more leverage on the hand, and so the harder to start and stop the drive. Quick taper is necessary, for strength where needed, as the only rods I have ever broken, while casting, failed at the butt or handle. Individual exceptions serve to prove the general application of these theories.

The strength and style of the individual caster should determine just how short and stiff the rod should be. In the case of my own rods I have gradually shortened them for several years and do not know yet where I shall stop. At present my ⅝ oz. or plug distance rod is four feet five inches in length. The length of my ½ oz. rod is four feet six inches and that of the ¼ oz. rod is five feet. The weight of all the rods is practically the same, approximately five and a half ounces.

These lengths, I feel, are quite enough for anybody, though some casters with small wrists and forearms would do better with rods even shorter. The ratio of lengths of the different rods as outlined above is approximately correct so that the leverage exerted on the hand holding the rod, or in other words, "the feel," will be the same for each of the three weights.

I do not believe any caster can do his best without a separate rod for each event with each bearing such relation to the others as will enable him to cast each of the three different weights with the same thought and motion. If, however, a rod must be used for more than one event, it will be a decided help to let the lighter weight hang down farther from the tip at the tart of the cast. The friction of additional guides seems to have very little, if any, effect on the distance cast, two or three guides doing

The Reel You'll be Proud to Own

WHEN you unpack the old bait box and pull out a Meisselbach, you're established as a man who knows good tackle.

Meisselbach "Takapart" Reels have been the preferred reels of experienced fishermen, tournament winners, casting clubs for many years, and here's why—

Made with the care and precision of a watch and subject to 150 inspection operations, and guaranteed for all time against any defect in material or workmanship.

No vibration and no screws to work loose, because tubular frame is cut from one solid piece.

Made of nickel silver and brass with everlasting phosphor-bronze bearings.

The standard Meisselbach "Takapart." Quadruple multiplying, tubular frame, capacity 100 yards. $7.

Bar over which line runs ground and polished and not rough as it left the machine.

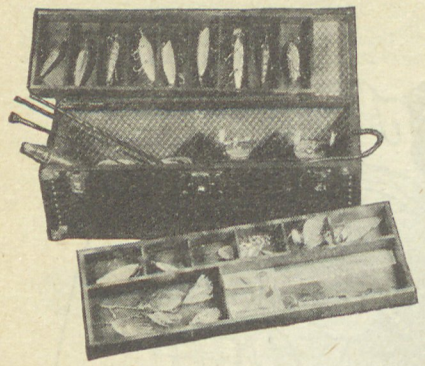
No wonder that wherever there's fishing, Meisselbach is known and prized as the finest, most dependable reel that money can buy.

Write for your copy of the "Bite Book"—what makes 'em bite—by a famous fisherman. It's yours for the asking.

The A. F. Meisselbach Mfg. Co.
Sales Offices and Factory: Elyria, Ohio
11 Taylor Street

Meisselbach

The Veteran Reel for Veteran Fishermen

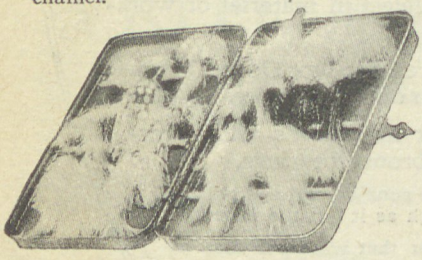


Welcome News For Fishermen

You've always wanted them—and now you can get them. You'll find Green Line Tackle Boxes and Green Line Fly Books at nearly every dealer's. Tackle is easy to get at and it can't rust in a wood-lined, metal-covered Green Line Tackle Box.

Green Line Tackle Boxes are well arranged, water-tight, and extremely convenient. The Standard model has two compartmented trays for large and small tackle and compartments for two reels. Accommodates rod and all.

Will not dent when sat on or bulge at the cover or rattle when carried. We also make a smaller model with one tray. Both models are attractively finished in olive green baked enamel.



Here's the best and easiest way to carry your bass flies. There's room for over two dozen in the ingeniously constructed Green Line Fly Book. It's just pocket size, easy to use and easy to carry. Flies hook instantly into the adjustable springs and are held securely in place until wanted. Can't work loose, fall out or catch on each other. And flies dry out smooth and fluffy. Attractive olive green crackle finish.

If your dealer can't supply you, write us.

Visit booth No. 126 in the Sherman Hotel during the convention of the Izaak Walton League in Chicago, April 8, 9 and 10th. Green Line Tackle Boxes and Fly Books will be on display.

GREEN-CASE, Inc.

Dept. O. A. RACINE, WISC.

Manufacturers of

The **GREEN** *Line*

as well as one. The location of the guides on the rod, however, has some effect on its action. The closer to the tip the guides are placed the more flexible the rod will feel. So, if a rod is too stiff for your purpose place the guide or guides well out toward the tip.

The rods that I am using have two guides and a tip top, the first guide being located about half way between the handle and the tip. Very large guides are absolutely unnecessary. During three-fourths of the cast the line is pressed very hard against the back side of the guides and I believe that guides one-eighth of an inch in diameter are large enough for silk threads.

The caster will do his best work with the style and type of handle to which he is most accustomed and it will be a great help to him to have the handle of all his rods identical, for the reason that, as so much of the cast is reflex action and habit, a slight difference in grips has a demoralizing effect.

The foregoing article was written by Mr. Fred Arbogast, of the Akron Casting Club and the caster who revolutionized Distance Bait Casting and placed these fascinating events in the lime light. His first appearance at a National Tournament was at Columbus, Ohio, in 1920 where his style of casting attracted much attention though his scores were not remarkable but at the Cleveland Tournament he showed that he was without doubt the Champion Distance Bait Caster of America as he met and defeated the crack casters who came from all parts of the country. At this time he made a new record of 250 feet nine inches average in the half ounce event as well as winning the Distance Bait Challenge Cup in spite of a backlash in the plug distance.

At Denver, the next year he successfully defended the Challenge Cup, setting new world's records of 208.8 feet in the quarter ounce and of 257.8 in the half ounce, his longest cast being 284 feet.

In the Buffalo Tournament he made the longest cast of 225 feet with a quarter ounce weight, made a new record of 267.6 feet in the half ounce and one of 244.8 in the plug distance. In 1925, at Chicago, he cast the half ounce a distance of 293 feet, the longest ever cast at a National Tournament. Mr. Arbogast holds all the Distance Bait records with exception of the average in the quarter ounce.

He has a very quick, powerful delivery and a style quite different from all other casters. His forearm is like a steel spring and the short, quick swish of his rod and the "zing" of his reel can be heard across the field whenever he lets one go.—EDITOR.

CASTING CLUB NOTES

News of another new club comes from Iowa, making the fifth one in that state. The Sioux City Rod and Reel Club of the Izaak Walton Chapter No. 28 has joined the Association recently.

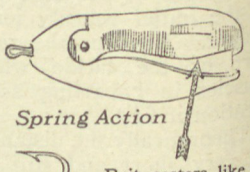
New!

Weedless Lure

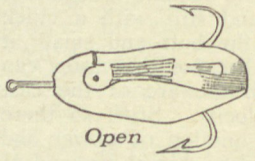
FOR the past eighteen months the Fenner Weedless Lure has been undergoing the process of construction with just one end in view; a perfectly balanced weedless bait.

The bodies of Fenner's Weedless Bait are made of indestructible pyrolin and come in assorted color combinations to suit every angler's fancy. The interior mechanism is made of brass; rust proof and non-corrosive.

Ideal for casting, trolling, etc., through weeds, or any obstruction that snaps ordinary baits.



Spring Action



Open

Bait casters like its fish-like wobbling action in the water, and especially its efficiency in lakes filled with weeds.

Retail price $2.00.

The Fenner Weedless Bait Co.

OXFORD, WISCONSIN

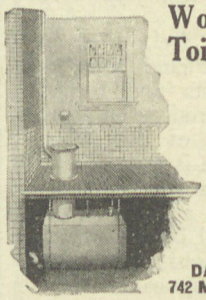
DEVIL BUGS FOR TROUT

A never failing lure that has a record for catching large trout. Made up in a beautiful assortment of colors.

Trout Devil Bugs, 50c each. By mail or at your dealer's. Free catalog in colors.

O. C. TUTTLE DEVIL BUG, Inc.

30 Tuttle Building Old Forge, N. Y.



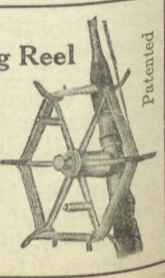
Wolverine Chemical Toilets-Septic Tanks

Enjoy the same comfort and convenience at your summer cottage that you do in a city. It can be done easily by anyone. Eliminate troublesome outside privies. Write for full information. *Agents wanted.*

DAIL STEEL PRODUCTS CO.

742 Main St. Lansing, Mich.

Kiest's Aluminum Casting Reel



Patented

The King of All Large Type Reels

Valuable to Amateur Anglers

NO BACK LASH

Seven inches in Diameter

This Reel is Line-Drying, Ball-Bearing and Level-Winding---------- **$6.00**

If your dealer cannot supply you write to

HENRY A. KIEST, Manufacturer,

Box J KNOX, IND.

Our income from advertising is put to work for conservation.

Mr. L. B. Semple is the chairman of casting events and Mr. J. H. Bolton and Mr. Diedric Haskins are president and secretary, respectively.

Some Iowa State Champions should be in evidence at the coming National Tournament.

The Univerity Casting Club of Seattle sends word that all members are awaiting the opening of the casting season and that all enjoy reading of other club doings in OUTDOOR AMERICA. Its newly elected officers are: President, Mr. Carl Brattan; Sec. Treas., Mr. E. M. Brown; Captain, Mr. A. Martin; Trustees, Messrs. Joe Martin, Don Wilson and J. C. Calhoun.

All news items of the Clubs, schedules, scores and important events will be gladly received by the editor. As the season opens casters are interested in news as well as in half and quarter ounce weights.

So many inquiries come relative to supplies and their cost that the following list of supplies and prices will be a guide, not only to members of casting clubs but to all readers and Waltonians who do not know where to obtain such casting supplies. All requests for these should be sent to Frank S. Leach, 154 South Hamlin Avenue, Chicago, Secretary of the Association.

Price List of Official Weights, Plugs, Flies, Lines, etc.

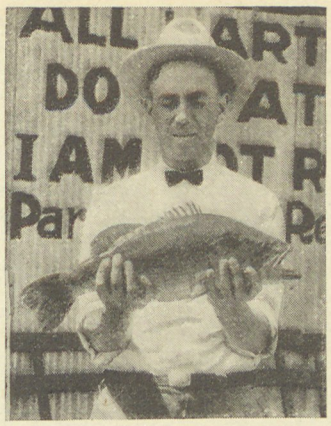
¼ oz. Weights.10c each $10.00 per 100
½ oz. Weights.10c each $10.00 per 100
⅝ oz. Plugs.....20c each
Dry Flies .....$1.20 per dz.
Distance Flies .....1.20 per dz.
Accuracy Flies .....1.30 per dz.
Salmon Flies.....1.40 per dz.
Plug Lines 4½, 5 and 6 lb. test
50 yards on spool..... 70c each
100 yards on spool.....1.40 each
No. 000 Silk, Test—1 lb. 9 oz.
2000 yards on spool.....1.50 each
Distance Plug Line—Test 3½ lb.
500 yards on spool.....1.25 each
Blue Print of Folding Target.15c each
Score Sheets .....18c per dz.

The following resolution was unanimously adopted at the Annual Business Meeting of the N. A. S. A. C., held in the Statler Hotel, Buffalo, N. Y., August 16th, 1924.

RESOLVED, That on and after this date no scores will be recognized as official or published in our magazine unless cast under N. A. S. A. C. rules and with official weights, plugs, flies or lines as furnished by the N. A. S. A. C.

NATIONAL TOURNAMENT OF 1926

The National Tournament of 1926 will be held at Philadelphia during the third week of August in connection with the Sesquicentennial Exposition as approved at the last annual meeting of the N. A. S. A. C., at Chicago. Word comes from the Association's representatives in the east, Mr. Jack Schwinn and Arthur J. Neu, that plans



"I got my $50 worth Catching this one Bass!"

So says Mr. C. T. Hunkapillar, of Pampa, Texas, in sending in the above photo.

"I caught this 7½-pound big mouth bass on one of your Foss Pork Rind Minnows.

"I consider this 'baby' a good catch! Have fished quite a bit for ten years, and it's the best thing in the way of a bass I ever caught. That morning our party (three of us) caught about fifty smaller bass—almost all with Foss Pork Rind baits.

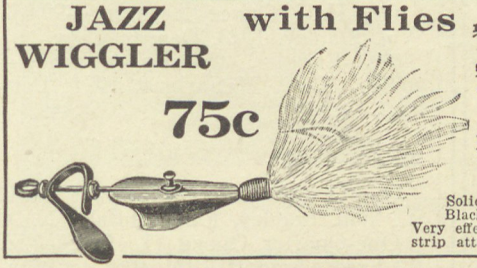
"Anvil Club Lake, at Canadian, Texas, has just this year been made a club by its owner, Mr. J. C. Studer. I bought a membership, and I'll say I got my $50 worth catching this one Bass!"

Al Foss Pork Rind Minnows

will get bass for you just as they do for others. When you stock up for the big trip this year, insist on seeing the name of the originator and patentee—Al Foss—on every lure box and pork rind bottle. It's there for your protection.

JAZZ WIGGLER with Flies

75c

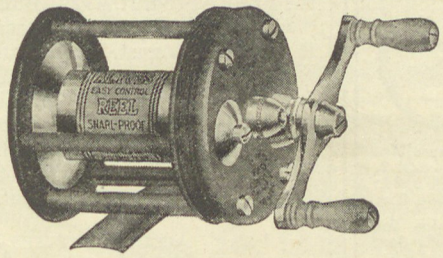


No. 10
⅛ oz. ⅜ or ⅝ Hook
No. 9
⅝ oz. ⅝ Hook Only

Tied with the following flies:

BUCKTAILS
White, Red, Brown, Yellow, Orange, and Black

FEATHERS
Solid Red, Solid Yellow, Black with White Streamer
Very effective, with small pork strip attached to curve of hook



"Never a back-lash—every cast perfect—simply uncanny!"

So says an angler who used one of these reels on a two-weeks' fishing trip.

This *snarl-proof casting reel* has a simple centrifugal device revolving within the reel arbor—a little policeman who raises his hand at the proper moment and stops a snarl from stepping in.

Make this test at your dealer's:—Have him rig up this reel with line and if there is not room for you to actually cast, just hold the reel in one hand with thumb off of line, and with the other give the end of line a hard jerk. You will see that while the line will unwind and *apparently* snarl, it can be readily stripped off, rewound and ready for another demonstration. Then try this with *any other reel* and *see what happens.*

Like all other reels, the Al Foss Easy Control Bait-Casting Reel will "back-lash" under careless handling. But the line *will not become snarled,* it will readily strip from the spool for rewinding and continued casting.

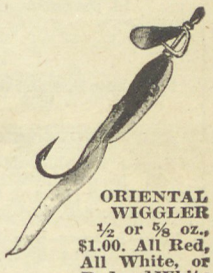
If dealer will not supply you, send $25.00, and try reel 30 days. Then, if you want to worry along with your other reels, send it back, and money will be returned.

AL FOSS

Originator, Patentee and Manufacturer of the Pork Rind Minnow.
9526 Quincy Avenue Cleveland, Ohio

SHIMMY WIGGLER
½ or ⅝ oz., $1.00

JAZZ WIGGLER
½ or ⅝ oz., 50c



ORIENTAL WIGGLER
½ or ⅝ oz., $1.00. All Red, All White, or Red and White

45c—Bass, Musky and Fly Spinner sizes

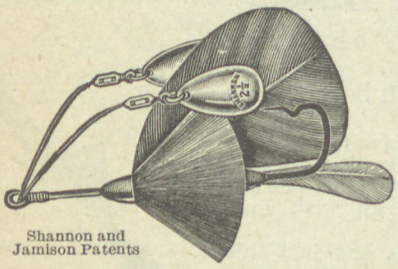
Help Save the Fishing

USE JAMISON

BARBLESS HOOKS

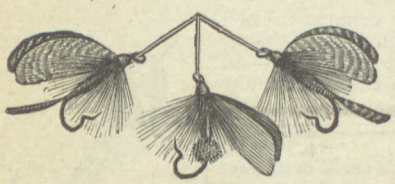
For All Kinds of Fishing

They catch more fish because of better penetration and because they do not cut or tear. They do no injury to small fish, and thus help preserve the fishing. They are humane, sportsmanlike and effective. Every Sportsman should use them and many thousands do. We guarantee absolute satisfaction or money refunded. Do not fail to take a supply with you on your vacation. Returning small fish uninjured will add much pleasure to your trip.



Shannon and Jamison Patents

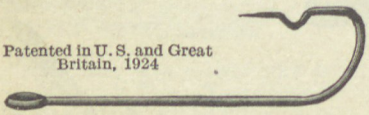
The Barbless Hook Shannon Twin Spinner. The greatest of all casting or trolling baits, Weedless but a sure fish getter. Red, Yellow or White Feather Fly. Price each 85 cents.



Barbless Hook Wet Trout and Bass Flies, Highest Quality. 24 patterns. No. 4, No. 6, No. 8, No. 10 and No. 12 hook. Five for $1.00 or $2.25 per dozen.

Barbless Hook Dry Flies, no snell. Highest Quality. 12 patterns, No. 8, No. 10, No. 12 and No. 14. Four for $1.00 or $2.50 per dozen.

Barbless Hook Inverted Bass Flies No. 1/0 Ringed Hook, no Snell. Highest Quality. 14 patterns. Each 35 cents, $4.20 per dozen.



Patented in U. S. and Great Britain, 1924

Ringed Barbless Hooks (cut shows No. 1/0). Nos. 8 and 6, 20c doz. Nos. 4 and 2, 25c dozen. No. 1/0, 30c doz. No. 3/0, 35c doz. No. 4/0, 40c doz. No. 5/0, 50c doz.

Turned-Down-Eye Barbless Hooks, for fly tying, Nos. 8, 10, 12, and 14, 25c doz. $1.75 per 100.

Single Gut Barbless Hooks Nos. 4, 6, 8, 10 and 12—doz. 75c.

Double Gut Barbless Hooks, No. 2 and 1/0, doz. 85c, No. 3/0, 4/0 and 5/0 doz. $1.00.

OUR FISHING PICTURES
are the best "movies" ever made.
Send for full information.

Catalog of Barbless Flies, and Hooks, Shannon Twin Spinners, Coaxer Baits, Silk Casting Lines, etc. Testimonials.

THE W. J. JAMISON CO.
Dept. W
739 S. California Ave., Chicago, Ill.

are already under way for the big National Event and that work on the platforms, etc., will be started as soon as the snow melts. Details of headquarters, transportation, and events are being arranged by the committee in charge and clubs will be notified as soon as agreements are reached and each number of OUTDOOR AMERICA will contain news and progress of the Tournament. Both Mr. Schwinn and Mr. Neu report that enthusiasm in the east is increasing and this is evidenced by the formation of several new casting clubs on the east coast who are already grooming some of their stars to meet the champions of the middle west.

All casters and their families will be furnished tickets of admission to the Exposition and after the Tournament arrangements are to be made for a trip which will include Surf Casting and deep sea fishing. As a matter of foresight it would be advisable for all who know now to write to either of our representatives arranging for accommodations during their attendance at the Tournament.

The National officers will have the program of events to be cast ready for the next issue of OUTDOOR AMERICA.

In order to give the early spring casters some marks to shoot at, a summary of highest scores established at former Natoinal Tournaments is given below.

ACCURACY BAITS

One-Quarter Ounce Accuracy—100%, V. Dean Reese, 1925, Chicago, Ill.

One-Half Ounce Accuracy—99.8%, Wm. Stanley, 1923, Denver, Colo.

Five-Eighths Ounce Accuracy—99.8%, E. C. McFarland, 1921, Portland, Ore.

DISTANCE BAITS

One-Quarter Ounce (Average)—216 ft., Wm. Stanley, 1924, Buffalo, N. Y.

One-Quarter Ounce (L. Cast)—225 ft., Fred Abrogast, 1924, Buffalo, N. Y.

One-Half Ounce (Average)—267.6 ft., Fred Abrogast, 1924, Buffalo, N. Y.

One-Half Ounce (L. Cast)—293 ft., Fred Abrogast, 1925, Chicago, Ill.

Five-Eighths Ounce (Avg.)—244.8 ft., Fred Abrogast, 1924, Buffalo, N. Y.

Five-Eighths Ounce (L. Cast)—250 ft., Fred Abrogast, 1924, Buffalo, N. Y.

ACCURACY FLIES

Accuracy Fly (Wet)—100%, Geo. G. Chatt, 1923, Denver, Colo.

Accuracy Fly (Dry)—99 14/15, Geo. G. Chatt, 1925, Chicago, Ill.

Accuracy Fly (Dry U. D.)—99.6%, W. F. Backus, 1919, Chicago, Ill.

DISTANCE FLIES

Five and Three-Quar. Oz. Avg.—123 ft., Geo. G. Chatt, 1923, Denver, Colo.

Five and Three-Quar. Oz. L. C.—125 ft., Geo. G. Chatt, 1923, Denver, Colo.

Salmon Fly (Average)—151 ft., John S. Schwinn, 1925, Chicago, Ill.

Salmon Fly (L. Cast)—162 ft., F. N. Peet, 1915, San Francisco.

Divine RODS

Priceless Possessions for Priceless Pleasures

If you are the kind of fisherman who has had revealed to him the real sport in fishing, this announcement is of interest to you. For you can appreciate the qualities that make a fine sporting instrument.

To you we say—*insist* upon seeing, and getting the "feel" of a Divine Rod before you buy.

No mere discussion of materials or skillful workmanship can possibly convey to you the sort of nerve-like sensitiveness, action and sinuous strength that live in a Divine Rod.

Send for catalog. And ask your retailer to show you the kind of Divine Rod you want. If he hasn't that one, he can get it for you.

THE FRED D. DIVINE CO.
522 Roberts St. Utica, N. Y.
Rods to order if you wish.

High-Grade Split Bamboo FISHING RODS

Write for Special Booklet describing
Thomas Special and Dirigo Rods
Made at the Rod Shop of
THOMAS ROD COMPANY
BANGOR, MAINE
Manufacturers of the Fishing Rod of Quality

THE PRESCOTT SPINNER

"GETS-EM"
WHEN ALL OTHERS FAIL
9 IN. OVERALL
WEEDLESS 30¢
PLAIN 25¢
ASK YOUR DEALER—SEND FOR CIRCULAR
REG. U.S. PAT. OFF.
PRESCOTT SPINNER MFG. CO.
BY CHAS. H. STAPF. PRESCOTT, WIS.

PECK'S PERFECT HOPPER

Barbless or regular hooks. Essential for all trout fishing, in wet or dry fly waters. Everyday assured killers. Send one dollar for two dependable patterns that will last all season. Peck's free fishing booklet on request.
E. H. PECKINPAUGH, Chattanooga, Tennessee

Anglers Quality Tackle
Fly Tying, Rod & Lure Making Materials & Supplies
Tools, Instruction Books, Etc.
Everything for Fishing: Rods, Reels, Flies, Lures, Lines, Fly Books and Boxes, Nets, Sinkers, Floats, Tackle Boxes, Baits, Snelled Hooks, Leaders, etc.
TRY MY FLIES.
J. F. WILLMARTH, ROOSEVELT, N. Y.

Be Sunburn-Proof!
Send for bottle of this magic liquid now. Use next summer. Pay $1 when convinced by actual use.
Strong, Cobb & Co., 320 Central Ave., Cleveland, O.

Results mean more advertising. Help our advertisers get results.

Mostly About Boys—

Edited by
BEN EAST

Jean Pfau with an armful.

A FEW weeks ago I had a letter from a boy down in Kansas City, Kansas, who wanted to come and sit with the gang around our fire, and maybe tell us a fireside story or two. I won't tell you his name, for I don't think that would be fair. He wrote a good letter about a rabbit hunt. A good letter all but for one sentence. That read, "I shot a red-headed woodpecker."

Boys, I felt pretty badly about that statement. A red-headed woodpecker. What did he do with it? No good to eat. He must have just thrown it away. Now I like red-headed woodpeckers. In fact I like birds of any kind from humming birds up to great blue herons. I think a woodpecker, flitting about a gray winter woods, hammering cheerfully through the frozen bark after his breakfast of wood boring grubs, is one of the cheeriest sights winter brings us. And if he has a red head, bright as a drop of blood against the dull branches and white snow, then the picture is complete. I've had one of those redheads scold at me from behind a poplar stub, till I thought it was a rabbit squealing in the clutches of a weasel.

And here was one of the boys of my own gang, killing this winter friend of mine. If he killed them, it was a safe bet that he killed other birds too. Songsters in summer and that sort of thing. They weren't any good to him,

"Hook, Line and Sinker"

Every true fisherman knows they are safe in a Kennedy Kit

IN a Kennedy Kit there's protection and room for everything—hooks, sinkers, lines, artificial and bottle bait and several reels. Electrically welded, rust-resisting, waterproof, finished in Kennedy Brown baked enamel. Can't spill, even when it's unlocked.

All good hardware and sporting goods stores carry them. Moderately priced.

KENNEDY MANUFACTURING COMPANY
208 Harrison Street, Van Wert, Ohio

Kennedy Kits

$100.00 for a Name for this Wiggling Spoon!

Length of body 2¾ in.
Weight ¾ oz.
Price $1.00
Made of brass—highly nickel-plated.
No. S-1 equipped with feathered treble at end.
No. S-2 equipped with hook for attaching pork rind.

Aug. 9th, 1925
"The first cast my wife made with the new Wiggling spoon, she landed a 4½ lb. Bass, taking five Bass in all in an hour. It's the best Bass Spoon ever on the market."
FRANK S. MAY
Spokane, Washington

THIS new 1926 Wiggling Spoon wants to be rechristened! There's nothing else like it! Does not revolve or twist line! Has natural minnow-like swimming movement—like other Creek Chub Lures! And a guaranteed Fish Getter!

WE will pay $100 to the person sending us the best name and the best description of this lure—and why every fisherman should use it! Try to keep descriptive paragraph within fifty words! In case of tie, the paragraph submitted will be deciding factor!

It is not necessary for contestants to purchase this lure

SEE this Wiggling Spoon at your dealers—or order one direct from us! Try it out and see for yourself how it acts in the water! Contest closes July 31st, 1926! The officers of this company will be the judges. Winner's name will be announced in September, 1926, issue of this magazine. Address all names and paragraphs to Contest Manager,

CREEK CHUB BAIT COMPANY
1324 So. Randolph Street, Garrett, Ind.

TROUT SEASON OPENS IN APRIL

VLED

This fisherman's service station is prepared to equip you with the best and latest ideas in correct Trout casting outfits consistent with good sportsmanship.

Come or send for new Tackle catalog

HUNTING
FISHING
CAMPING

VON LENGERKE & DETMOLD INC.
F. H SCHAUFFLER, Pres.-349 MADISON AVE., Dept. F, N.Y.C.

"Mike."

but he killed them anyway, just for sport, and every one he shot meant a family as happy as the boy's own, broken up for good!

I remembered the story of a bird-man friend of mine told me, of an oriole that came up from the south ahead of its mate one spring. It chose a perch in an elm tree, near the spot where they had hung their nest the previous summer. Then it began, time after time during the day, to sing a little short song that she would recognize. For some reason she did not complete her journey. Some accident had befallen her on the way. Perhaps some boy who is reading this, down in Kentucky or Tennessee or Georgia, had shot an oriole. I do not know. At any rate the bird's mate did not return, and he continued to wait and sing for her week and after week. When August came, dry and dusty, the lonely oriole was still perching for hours in the elm top in the sultry heat of our Michigan summer, singing his

Norman Staiger

30 Days Trial — BE WELL AND KEEP WELL — 30 Days Trial

THE ROCHE ELECTRIC HYGIENIC MACHINE

Look Like This at 50 — HELPS NATURE IN HER FIGHT AGAINST DISEASES AND PAIN — Don't Be a Dead One at 50

It increases blood circulation, strengthens and soothes the nerves. Brings sleep to the sleepless

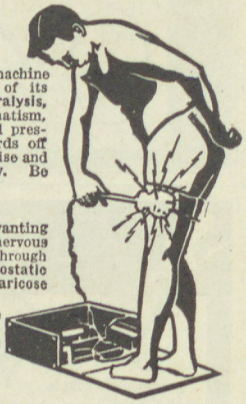
THE VIGOROUS MAN OR WOMAN IS LEADER OF ALL

You cannot realize the benefits derived from the machine except you try it. One treatment will convince you of its extraordinary qualities. If you are suffering from paralysis, locomotor ataxia, vertigo, apoplexy, neuritis, rheumatism, lumbago, gout, hardening of the arteries or high blood pressure, be sure to investigate this machine. For it wards off and overcomes such ailments. Takes the place of exercise and hand manipulation. Gives your muscles firm elasticity. Be neither fat nor thin.

NORMALIZE YOUR WEIGHT

Do you realize what this machine means to one wanting in vital strength, or suffering from general weakness, nervous debility, insomnia, constipation, headaches or pains through the back and limbs? It is the only treatment for prostatic gland trouble or varicose veins.

BOOK FREE

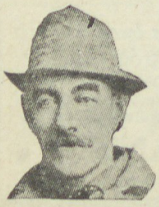


Invented and Patented by Prof. J. B. Roche

Remember our machines are not vibrators, but a genuine health-helping, life-prolonging apparatus. As electrical manufacturers we build high-frequency machines of special design, including our new combination machine, "High-Ray," or, in other words, "Violet Ray," which is operated from direct or alternating current, and two No. 6 dry cells furnish the pulsorating and atomical vibration. We know that we have overcome the possibility of accidents through short circuit which so commonly happens in cheap and inferior machines.

Our machine should be in every home. Write for our trial offer and testimonials. It is for men and women who want to become healthy, vigorous and efficient. Address:

ROCHE ELECTRIC MACHINE CO., Dept. O. A. 4, GRAND RAPIDS, MICH., U.S.A.



JOE WELSH Genuine Telarana Nova Leaders

Invisible, strong; in sizes for any fresh water fish. Only leader steadily advertised nationally for 10 years.

Thousands of best anglers all over world praise them. 25c will bring you 3-ft. trout or bass size; 50c for 6-ft. Also send free card showing six sizes, giving strengths, lengths, etc. Once used, always used. Made in plain or dropper loops.

If your dealer does not have them, tell me. Don't buy scrubby imitations. Joe Welsh, the only genuine, registered in U. S., Canada, Great Britain. Manufactured by Wm. Robertson, Scotland.

JOE WELSH, Pasadena, Calif.

NATIONAL SPORTSMEN OK SEAL OF QUALITY TRY-OUT & TESTING DEPT

Don't be afraid to tell our advertisers you saw their ads in OUTDOOR AMERICA.

May song of waiting for a mate that would never answer.

That is what it means when a boy kills a bird! I didn't think any boy that sat around this fire would want to do a thing like that after he understood all that it meant, and if he did, then I didn't think we wanted him around the fire. So I wrote this boy a letter. I wasn't gentle with him. I told him just how wrong and unsportsmanly he had been. I told him that I hoped, after he had read my letter, he would see bird shooting as I did.

Fellows, that boy had the right spirit! He wrote straight back to me! He was wrong and he wasn't afraid to admit it! He wasn't angry at me either for what I had said to him. That's sportsmanship!

I have his letter here on my desk. He says, "I have made my rule as follows: upon my honor I will not molest or hurt another bird, I care not of what kind it is!"

How's that, boys? How many of you fellows are ready to take that same pledge? Come on now, all together, and cross our hearts!

That boy's first name is Robert. Come on in to the fire and sit down, Bob! You are our kind of a lad!

1811 Superior St., Toledo, Ohio.

Dear Editor:

Although I have never written before, I hope you will allow me to spin a yarn with you, as you sit by the campfire.

Last summer, at Van Ettan Lake, a very beautiful spot on which the Detroit Y. M. C. A. camp is located, I spent a very enjoyable vacation. It was there that I became acquainted with your column. As my uncle takes your magazine, I chanced to pick up one of the copies. I found the column very interesting, so it came about that I wrote this letter.

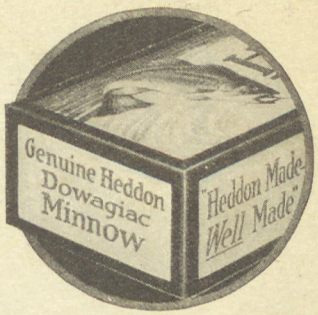
While I was up there I took a fishing trip which I thought you might be interested to know about. It was a rather gloomy day when my two uncles and I started off for the head of a big island. Upon arriving we anchored and began fishing for perch. Then we each threw out a line equipped with a bobber and a wire snelled hook with a large minnow fastened to it. As we were fishing off of the windward side of the boat my bobber soon drifted in, but I neglected it as the perch were biting in fine fashion. Then all of a sudden they stopped—the reason being unknown to us. Upon looking for my bobber the reason was soon disclosed. It was gone! I reeled in the line until it was taut, and then struck hard. My heart came up in my mouth as I felt the fish surging around below. As a matter of fact this was the first big fish that I had ever hooked. After fighting him for a few minutes, during which he was under the boat and almost around the anchor rope, I caught sight of him, and from then on gave him plenty of line.

But the strain of the rod and line was telling on him, and gradually he neared the boat. After several unsuccessful

(Continued on page 58)

This Year—Go Right!

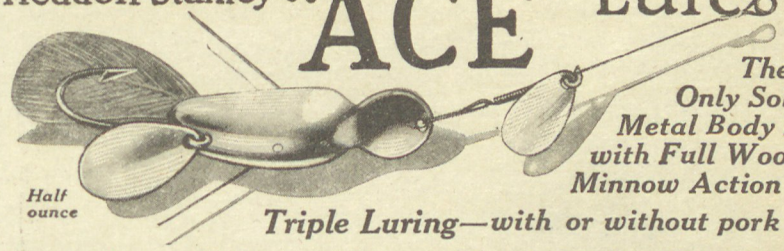
ARE vacations getting any longer—or fish more plentiful, or fewer people mobbing after them? Can we afford *any* handicap to our chance of sport? *This* year we're going *Right!* Every chance playing in our favor. Heddon perfection—Heddon reliability—in Rod, Reel and Lure. Satisfaction—pride—and the *confidence* that we are giving our hours of sport every last margin of advantage that tackle excellence can bring.



"The Box with the Red Edge"

—Seen and recognized more often than any other feature of the fishing tackle world.

The Year's Feature—Heddon-Stanley "ACE" Lure



Half ounce

The Only Solid Metal Body Bait with Full Wooden Minnow Action

Triple Luring—with or without pork rind

Most amazing combination ever concentrated in a single bait—violent swimming, wabbling forward movement besides intense body action emphasizing triple lure of polished metal body, brilliant feather fly and flashing spoons. Casts like a bullet with any rod—even against the wind. Goes deep as you please. Weedless and snag-proof. The nearest approach to 100% in every quality a bait should have—without the drawbacks. Attracts them—hooks them and holds them.

Bodies in nickel or copper finish; red, red-and-white, yellow or black fly; weedless . . . $1.00

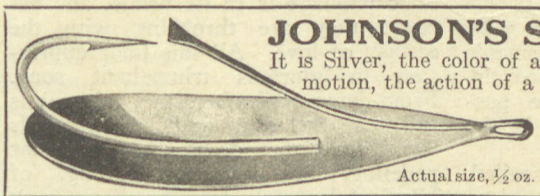
Ask your dealer to show you the popular new Baby Vamp and Baby Game Fisher.

In 14 Years of Field & Stream's Fishing Contests MORE PRIZE BASS on Heddon Baits than all other makes of wooden lures combined

FREE HEDDON FISHING BOOK—24 pages in wonderful colors—shows fish and correct tackle—old reliables and important new items and improvements for 1926.

JAMES HEDDON'S SONS, Dowagiac, Mich.

Heddon Fishing Tackle
Genuine Dowagiac



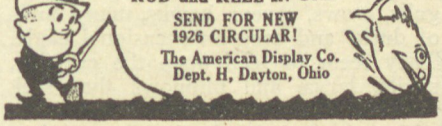
JOHNSON'S SILVER MINNOW

It is Silver, the color of a minnow. It has a fast wiggling motion, the action of a minnow, and the fish take it for a minnow. 75c each. Your dealer or direct from

LOUIS JOHNSON

Actual size, ½ oz. 519 W. Van Buren Street Chicago, Illinois

STUBBY GETS THE BIG ONES!



ROD and REEL IN ONE

SEND FOR NEW 1926 CIRCULAR!

The American Display Co. Dept. H, Dayton, Ohio

FISHERMEN ASK FOR "NIPIGON" BAIT AND FLY LINE DRESSING

A NEW, Scientific, Laboratory Product for Fly Fishermen and BAIT CASTERS. "Saves lines, flies and fish." Don't go fishing without it. Comes in handy collapsible tubes. 50 cents at dealers in New York, Chicago and San Francisco, Calif.

MORE DEALERS WANTED

The Transferoid Co., Owatonna, Minnesota

Single Tube Postpaid 60c and Your Dealer's Name.

150,000 SPORTSMEN

have written for P. Von Frantzius' famous SPORT MANUAL. It is chockful of live tips on guns, ammunition, tents, camping goods and hunting supplies. It is a regular bargain display of the latest and best in everything. Write for your copy today. No obligation

P. Von Frantzius, Dept. 2904 608 Diversey Pkwy., Chicago, Ill. **FREE**

HILDEBRANDT'S HINTS

Have you read Hildebrandt's new Hints with a lot of ideas on using Hildebrandt baits that "hook and land 'em?"

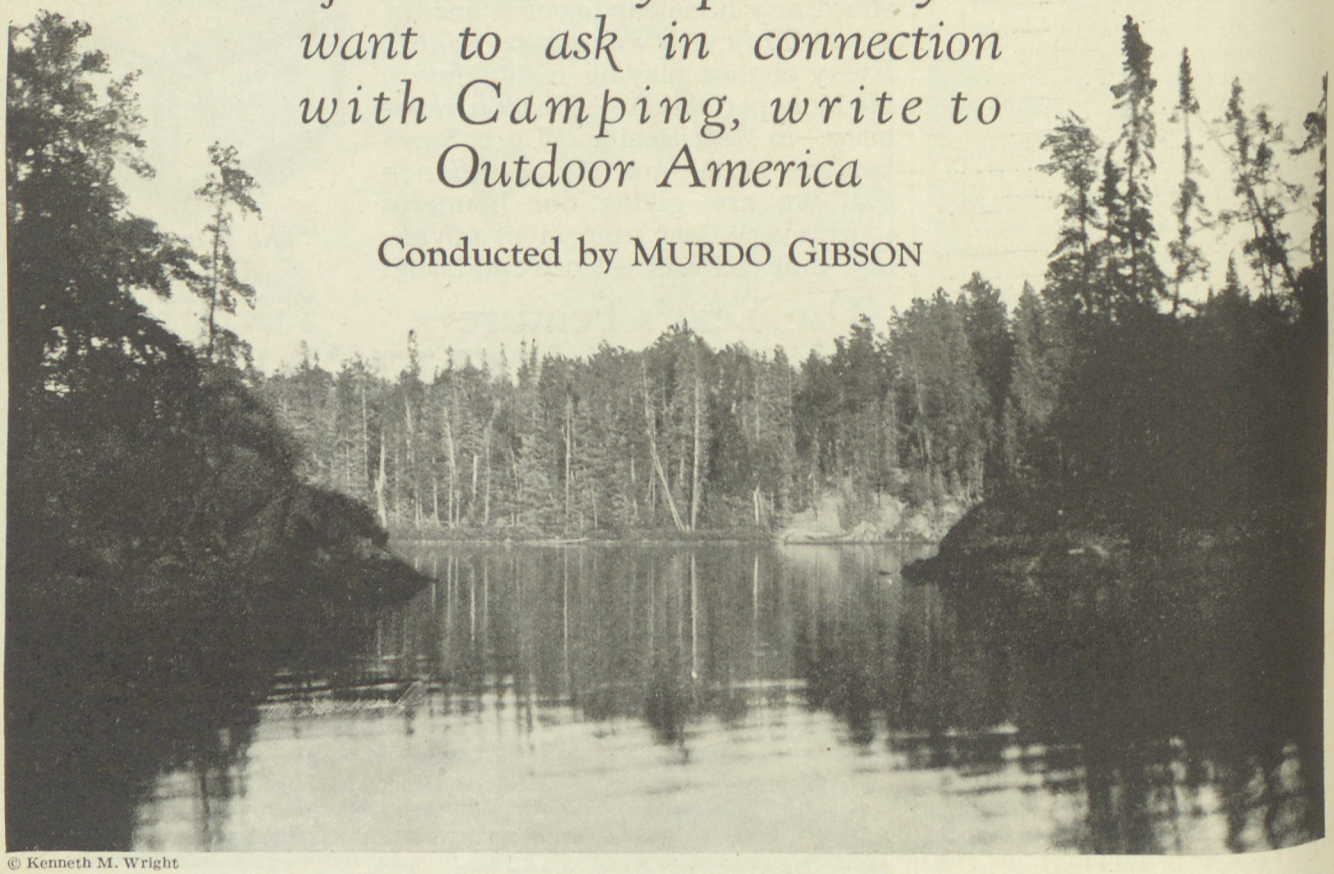
It's one of the best books on fishing ever issued—not a dry line in it. *Free to you*—tell us where to send it.

John J. Hildebrandt Co., 645 High St., Logansport, Ind.

Real Camping

If there is any question you want to ask in connection with Camping, write to Outdoor America

Conducted by MURDO GIBSON



© Kenneth M. Wright

A *FEW* days ago I asked a well known magazine writer what kind of article would be appropriate for the April number of OUTDOOR AMERICA. He advised "something of general interest, not especially applicable to any particular season, because (said he) April is too late for winter stuff and too early for fishing trips." Since this chap is in close touch with the editors and readers of sportsman's magazines, he doubtless expressed the idea commonly held as to the possibilities for outdoor enjoyment in the north during April.

This notion should be dispelled. Every lover of birds should spend at least one April camping out beside some large northern lake. If his camp-site be well chosen, there will be no need for urging him to repeat the experience.

By the middle of April most of the small lakes are entirely free from ice, while around the shores of the larger ones considerable open water will be visible. All snow will have disappeared from slopes having a southern exposure and the very atmosphere will be charged with the spirit of Spring.

This Spirit of Spring is not merely a figure of speech. Every living creature seems to be influenced by it. Its effect upon me is curiously like that of a mild current of electricity thrilling and vibrating every fibre of my body and inducing a sort of mental exaltation that banishes pessimism and leaves the conviction that life is well worth living.

To all the birds early spring is a season for rejoicing. They are happy because they are home again, because their plumage is in its prime, and because they are throbbing with the ecstasy of love. All this finds expression in glorious triumphant song. From dawn until after sunset the air is full of melody; and at intervals throughout the night the demoniac yodeling, or derisive cackling, of hilarious loons shatters the silence even as a bolt of lightning splinters midnight darkness.

One may see congregated around the margins of nearly submerged reefs gulls, crows, ravens, hawks, many kinds of ducks and even an occasional eagle. They seem to feed upon the crayfish, snails, larvæ and minnows that seek the surface at this season. Coincident with the search for food, a more or less constant courtship is carried on, entailing a vast amount of showing off and some rather harmless fighting.

I like to have such a reef within easy view of my spring camp. It is one of my ambitions to equip myself with a powerful telescope mounted on a low tripod, a pair of binoculars, a magnifying glass and a microscope, and to spend an entire April camping on the north shore of one of the larger lakes that form the boundary between Minnesota and Ontario.

Each day sees the arrival of some migrant species hitherto unnoted; and the recording in diary form of these and other events is extremely interesting to the student of feathered folk.

Nor is there lack of opportunity for the study of other forms of wild life. The wet side of the water's edge is a well stocked aquarium, whereas those who know how to look and what to look for will find the dry side a well traveled thoroughfare for a multitude of creatures that creep, crawl, waddle, or jump. With the aid of a reflecting lamp, the study of shoreline life can be carried on at night, when numerous specimens rarely seen in daylight may be scrutinized at close range.

Small animals, such as flying squirrels, red squirrels, weasels, skunks, porcupines, rabbits and many kinds of mice are likely to be observed in the immediate vicinity of a lake shore camp. They all possess a lively curiosity that impells them to investigate the strange sight, sounds and smells of a man's habitation. The student should know that nothing alarms a wild bird or animal so quickly and so surely as its in-

Our Advertisers help us, let us help them.

America's Ruling Tent Favorite

Dickey KAMPER

"First Umbrella Type Tent Without Center Pole!"

The Foundation of Your Outdoor Pleasure of 1926!

There's REAL joy in the outdoors, in a Dickeybird-Kamper. There's the thrill of restful, secure nights, with stretching room and ideal comfort. There's family excursions on touring and camping trips unequalled, in a Dickeybird-Kamper. Men and women who use tents, built this modern shelter—built it for all America to share. And all America is sharing it!

The 1926 Dickeybird-Kamper is an *improved tent.* Detailed refinements perfect it, make it completely irresistible. Yet the price remains the same. FIRST of its type to eliminate the old-fashioned, obnoxious center pole, the Dickeybird-Kamper continues to create advantages for the user. The finest materials are used; the canvas is rotproof, mildewproof and waterproofed, in dark green color, that WON'T RUB OFF! Read the specifications carefully—see how carefully the Dickybird-Kamper is built.

A wonderful year of health in the open awaits you. Insure full enjoyment on your camping and touring trips this year by using the Dickybird-Kamper. Take the tent that pioneers endorse whole-heartedly, the tent that has revolutionized outdoor shelter.

SPECIFICATIONS for the 1926 Dickeybird-Kamper: On ground, 9½x9½ feet, at eave 6x6 feet; 7 ft. 6 in. high in center. Six-foot man can stand erect anywhere in tent. 8 oz. double filled duck, waterproofed in dark green color, won't rub off; rotproof and mildewproof. Two windows, 15 in. sq. with storm flaps operating from inside tent, working between double strips of canvas, keeping out rain and wind. Door opening 28 in. wide, 6 ft. high; 6 in. doorsill. Bobbinet door slides on rope cable at top, simplest netting door to operate. Waterproofed, sewed-in floor. Premax steel stakes furnished. Patented frame-work responsible for tent's success, making it strongest and most practical tent for touring and camping. Tent made taut by few turns patented Dickey Sta-Lok screw shaft arrangement, which is connected to four tubing corner poles and quickly controls all looseness of tent. No need to go out in rain to drive stakes or loosen guy ropes; shrinkage can be controlled by unscrewing screw shaft. Awning 6 ft. wide, 6½ ft. long, and is part of tent. Many other features. 7x7 ft. tent, 5 ft. sq. at eave, one window and awning extension 5 ft. wide, 6½ ft. long, otherwise same as larger tent.

Here, we believe, is the FINEST tent built. Your Dealer will gladly show it. Write for his name, and Booklet.

The DICKEY Mfg. Co.

308 Tenth Street — Toledo, Ohio

MAIL THIS COUPON TODAY!

The Dickey Mfg. Co.,
Toledo, Ohio

Without obligation send me illustrated catalog, prices, etc., on new 1926 Dickeybird-Kamper.

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City..... O. A.

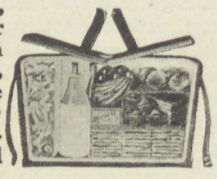
Hawkeye BASKET REFRIGERATOR

Wherever You Go— Take a Hawkeye

If you want *real* enjoyment camping or picnicing, make sure your foods are well protected. Get a **Hawkeye** Basket Refrigerator, then you can have the same tasty foods while you're out on the trip, that you now enjoy at home.

Fresh vegetables, milk, cream, steaks, fish, game and all sorts of special delights can be kept safely in a **Hawkeye**. You can spare yourself from eating canned foods or going to town every time you want a regular meal. And you'll find a **Hawkeye** Basket Refrigerator will save you considerably on expenses, too.

The handy, hinged cover lifts up from either end, making the **Hawkeye** always convenient and ready to use. Diagram at right shows construction.



Sturdily built, light and attractive, a **Hawkeye** will give you long and satisfactory service. See your nearest dealer today. And, remember, if you buy a **Hawkeye** Basket Refrigerator and later are not fully satisfied with your purchase, your money will be cheerfully returned.

Mail coupon today for new 4 color book

BURLINGTON BASKET CO.
400 Hawkeye Bldg., Burlington, Iowa
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terception of a human glance. It is important, therefore, to avoid any direct gaze. The observer should continue what he was doing when the visitor was first seen and, by a show of utter indifference, allay its suspicion. Unnatural silence and circumspection is as fatal to confidence as is sudden movement or sound; although mere noise seldom frightens for more than a few moments.

For the purpose of taking photographs of wild fowl some sort of blind should be built at the shore. Both ducks and loons are quite easily attracted within range of the camera. The bait may be anything that shines and glistens while swaying in the breeze, but does not remain stationary long enough for satisfactory examination at any great distance. Even without a blind, and while lunching in the open, I have tolled loons from mid-lake to within twenty feet of my fire. A bright tin cup, the fire, pocket mirror and an air of absolute indifference aroused their curiosity and allayed suspicion. The cup was suspended from a bush and left dangling at the end of a short string. The mirror was then used to project a beam of sunlight directly at the distant birds. When sure that it had been noticed I placed the glass on a rock so that it was plainly visible from the water and went about the business of preparing and eating my meal. The pretended reading of a newspaper undoubtedly aided in the enticement, but it was my apparent *disinterestedness* that carried conviction.

The outfit for any early spring camp differs little from that used in midwinter. Hob nailed boots, felt hat and serviceable gloves should be added to (but need not replace) rubbers, cap and mitts. Canoe and paddles will be useful when water lanes appear, so it is well to provide for them in advance. A stove will add much to comfort and convenience, although the tent door will be kept open most of the time.

The camp itself should be pitched on a sheltered, south-facing slope, preferably on the north side of a "narrows," or on a well timbered point, where a calm, lee shore will always be available.

Now that I have gratified my own desire to extol the delights and attractiveness of April camping I will heed the advice of my literary friend and proceed to generalities, applicable to any season.

It has been well said that there are tricks in all trades. Campcraft consists almost wholly in a working knowledge of an infinite number of tricks. Most of these we learn from others and only occasionally do we add one from personal experience. The professional in any line seldom realizes the ignorance of the lay public regarding his speciality; hence, it is difficult for a woodsman to comprehend that many people who have the desire for wilderness camping know so little about the most elementary things connected with outdoor life.

I once watched a company of militiamen try to hang and sharpen a few boxes of axes. These men were called out to fight a threatening forest fire and quick action seemed essential to the success of their efforts. After four hours of feverish fussing, less than half the requisite number of axes had been fitted with handles and only two had been sharpened. Realizing that the single grindstone was hopelessly inadequate, the officer in charge issued a number of ten inch flat files; one for each axe. Of course the fellows with double bitted axes had little difficulty after that. By driving one bit into the end of a log the tool was securely held while the other bit was being filed. But the unfortunates who had single blades seemed to be faced with a perplexing problem. After trying a number of awkward and unsatisfactory methods they solved it, in a rather poor way, by "doubling up," i. e., one man held the axe on a box, or stump, while the other filed. It never occurred to them to place the *file* on the box and to rub the axe against it, as a carpenter pushes a chisel against an oil stone!

This company was recruited from a city that is surrounded with forest, so it is quite possible that many readers of this magazine, especially those living in a prairie country, will be interested in a few suggestions on the selection and care of camp axes.

Inasmuch as grindstones are seldom available to north woods campers, it is quite important that all their edged tools be soft enough for filing. Toughness rather than extreme hardness is desirable and any cutting tool that is too hard to be filed should be left in town. High grade axes are usually ground to a slightly convex section. To withstand the shock of heavy blows against hard wood there must be some thickness of metal behind a keen edge. If ground to a concave section, like a razor blade, the edge would either bend or break according to the temper of the steel. It would also stick firmly in the wood after each blow and cause a needless waste of time, effort and patience to work it loose. The novice should carefully examine the shape of a new, high grade tool and endeavor to preserve it, thereafter, when grinding or filing.

A handle to be driven into, or out from, the eye of an axe should be held loosely, never *against anything*. Otherwise it is impossible to drive home either handle or wedge firmly without splitting.

A practical way for a camper to extract a broken handle is to bury the blade in wet sand, leaving only the eye exposed. A small fire is then built around it and when the metal becomes sufficiently heated the charred fragment can easily be removed. Unless exposed to the direct heat of the fire the temper of the blade will not be affected. If the axe is double bitted, dig a trench the width of the eye, place the axe over it, cover both blades with moist sand and start the fire.

For some years after powdered milk appeared on the market I refused to

When writing to Advertisers give credit to our Magazine.

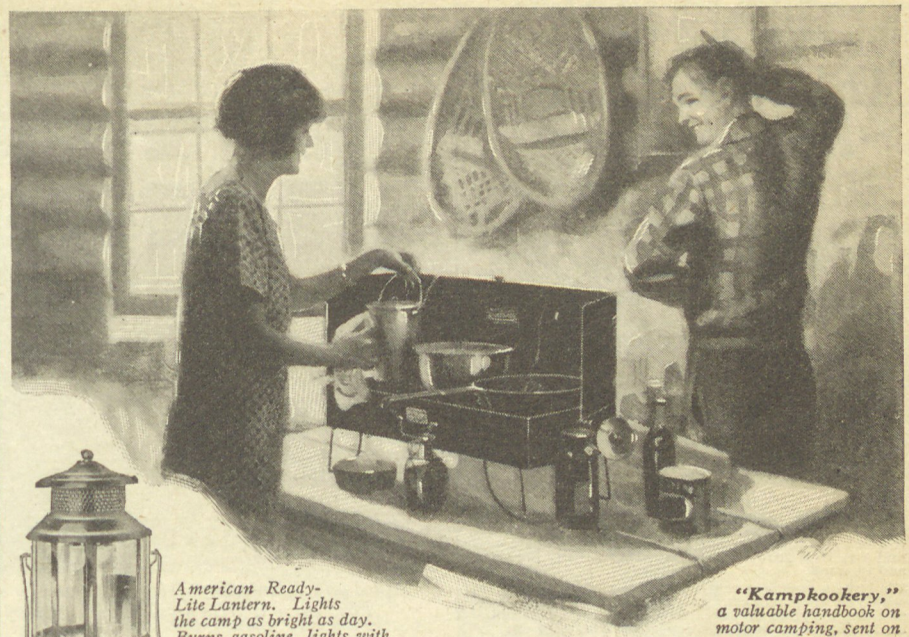
become enthusiastic about it. The over-diluted and partially dissolved product, as served in the lumber camps and cheap hotels of the frontier, didn't appeal. I carried a pound can of the stuff on a long cruising trip and never opened it until the last week, when supplies were running short and the "evaporated" had all been used. Then I found that a valuable addition to camp provisions had been shamefully neglected. Instead of following direction as given on the label I increased the amount of powder specified and dissolved it in a friction top can by shaking it violently, as a pre-Volstead bartender would agitate a cocktail. The result was a well aerated, foamy liquid that actually looked, smelled and tasted like rich milk, freshly extracted from a cow.

Care must be taken that the capacity of the container be considerably greater than amount of water put in. Expansion follows the shaking and, if not allowed for, something is likely to pop, suddenly. I am now a consistent booster for dry powdered milk for campers, actually preferring it to the liquid condensations. After five years experience with it I am of the opinion that it is a convenient and perfect substitute for natural milk.

Forget about stirring it with a fork or spoon, or even with an egg beater. Try the cocktail shaking method and see what a whale of difference a few shakes make.

Mr. Gibson will answer any questions pertaining to camping. Address Real Camping, Outdoor America

Startled.



American Ready-Lite Lantern. Lights the camp as bright as day. Burns gasoline, lights with matches—no torch. Windproof—safe. Price $7.50.

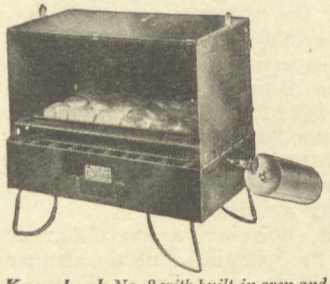
"Kampkookery," a valuable handbook on motor camping, sent on request. Write nearest office, Dept. 42.

When You Are Miles From Anywhere

OUT there in the big woods, cold or half-cooked food won't do. It's here you learn to know ***Kampkook,*** and appreciate its goodness. With ***Kampkook,*** you go prepared to eat. It's up and going full speed in a jiffy; there's a real meal in the making—a meal worth while. ***Kampkook*** is handy to carry anywhere, as sturdy and dependable as the pines themselves.

Being the original safety camp stove, ***Kampkook*** has many features and conveniences no other camp stove can give you. That's why it is used by more campers than all others combined.

Most leading dealers in camp equipment sell ***Kampkook***, and will gladly show you its many fine features, the detachable, easy-fill safety tank, non-clog burners, locked-in-position legs, built-in oven, folding windshield and many others. If your dealer cannot supply you a post card request will bring you the name of one who can.



Kampkook *No. 8 with built-in oven and heater. America's finest camp stove. Bakes, broils, boils, fries, roasts, toasts; in short, does anything you can do with your kitchen range at home. In strong wind oven protects utensils on all sides and top. Unequalled for heating the tent or cottage. Has 10½ x 19 inch cooking surface. Two-quart tank holds six hours' fuel supply. Folds to 5 x 10½ x 19 inches with everything inside. Price in the U. S. $11.00. Other models at $7.00, $9.00 and $14.50.*

AMERICAN GAS MACHINE COMPANY, Inc.
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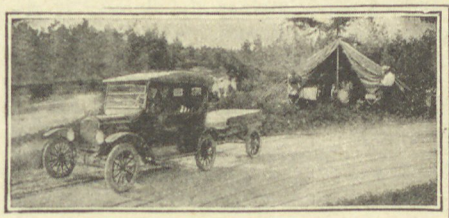
AMERICAN KAMPKOOK
TRADE MARK REG. U.S. PAT. OFFICE
AMERICA'S MOST POPULAR CAMP STOVE

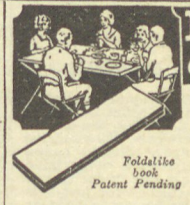


A SUMMER HOME ON WHEELS

The Clare Auto Tour Trailer is equipped with comfortable beds, a 12x14 ft. waterproof tent. Space under tent in which to cook and eat meals. Every convenience for comfort. Light and rigid, trails perfectly. Ideal for tourists.

Write today for catalog and prices.

CLARE MFG. CO. Clare, Mich.
Camping and Commercial Trailers.



Folds like book Patent Pending

Eat in Comfort on this E-Z-UP

Different from any other folding camp table. No slats or webbing. Made from wood for light weight, yet very sturdy and rigid. Top 24"x38" finely finished from 3-Ply Fir Veneer, GUARANTEED WATERPROOF. Takes smallest space when folded, 12"x38"x2¼", legs inside; lays flat—pile luggage on top. Quick to set-up; seats four people—room for six. Few parts—nothing to lose. Best camp table made. Only $6. If dealer can't supply you, write us giving dealer's name.

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Free CATALOG OF ARMY GOODS BARGAINS

Shirts, Pants, Boots, Shoes, Blankets, Tents, Guns, Harness, Tools—hundreds of articles you can use. Government's sacrifice saves you money. Write for Catalog, Free.

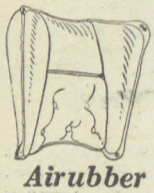
ARMY AND NAVY SUPPLY CO.
ESTABLISHED 1868
Dept. 314 Box 1635, RICHMOND VA.

ENJOY
Airubber Comfort this Season!

A good many people planning to tour or camp this season will avoid much discomfort by carrying Airubber conveniences with them. You should investigate and find out how Airubber can serve you when traveling and in camp.

We have a new free catalog which we shall be glad to send you upon request. In it you will find many suggestions for your comfort. Among the many Airubber innovations you should be especially interested in:

Airubber Bodifit Auto Cushion



This is a cushion, backrest or support for the head and shoulders—as you desire. May be adjusted to any position in the car. Lets you enjoy the longest trip in comfort. A few breaths inflate it. Made of durable rubberized fabric. Your choice of khaki at $4.00. Or corduroy in dark blue, beaver or auto smoke shades at $5.00.

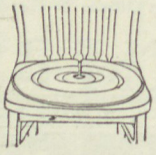
Airubber Restesy Mattress

Makes for restful sleep because it is a yielding cushion of air that fits the body, protecting it from cold and dampness. Deflated it occupies little space. The sections may be inflated and used as cushions for car, camp or canoe. At night easily joined together and makes the most comfortable bed you have ever slept on. Comes in several sizes and styles to fit cot, sleeping bag or car, and for one or two persons. Also shorter lengths for canoe or car. Prices range from $15.00 to $42.50. If your dealer hasn't this mattress, write telling us your requirements and giving dealer's name. We'll gladly advise style you should have and its cost.

Airubber Sleepesy Pillow

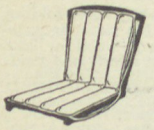
Makes for comfortable sleep because it supports the head in a natural position. Can be inflated with varying degrees of softness. Pocket size when deflated. Khaki cloth at $3.00. Fancy gingham patterns $2.50.

Airubber Sitesy Cushion



Keeps you comfortable through a long day in camp, at the office, driving or just riding. Guaranteed to keep its shape. Always cool and resilient. Two sizes. The 15-inch in khaki is $3.00; in corduroy and khaki it is $3.50, in which combination you may have your choice of dark blue, beaver or auto smoke shades. In the 17-inch size the khaki is $4.00; the corduroy and khaki is $4.50 with your choice of dark blue, beaver or auto smoke shades.

Airubber Canoe Cushion



Makes canoe trips more enjoyable. Sit or kneel on it. Miles slip by as you paddle or fish. Yet you do not tire. An appreciated convenience for the passenger. Should canoe tip over it becomes a dependable life raft for every one in the canoe. A life line is attached for just this emergency. Also handy in boat or car. Made of durable rubberized khaki, size 12 by 34 ½ inches. Price $5.00.

If your dealer hasn't these Airubber conveniences, order direct and mention dealer's name. We ship upon receipt of check or M. O. Examine your purchases. Like them, keep them. If not, return for refund. You must be satisfied.

You will find these and many other conveniences in our new free catalog. Be sure to ask for it.

Airubber CORPORATION

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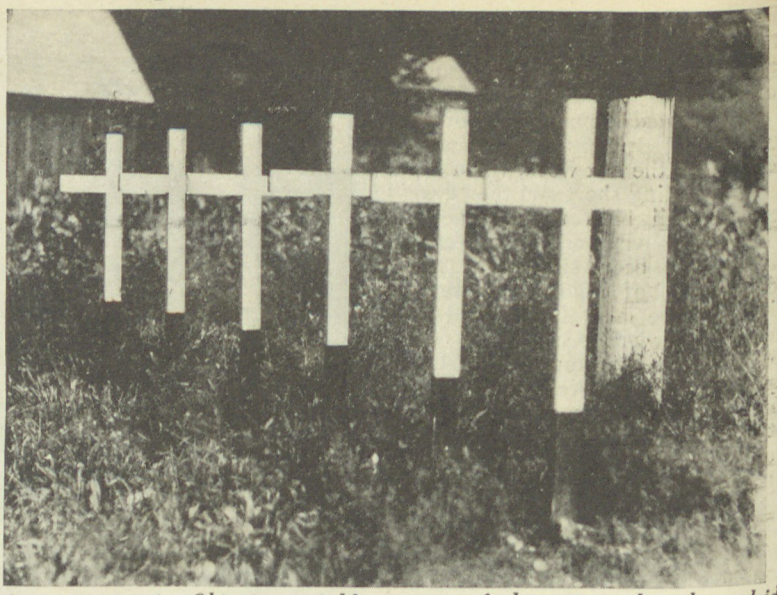


Autocampers entering Ohio are greeted by an array of white crosses along the roadside. They carry a great significance, as they mark the spot of an automobile fatality.

Auto Camping

Conducted by HOMER BOW

RESORT areas and towns along the main traveled highways are preparing for the motor camper this summer, as beyond a doubt there will be more auto-gypsies abroad than ever before in the history of the sport. The development of American highways, and accommodations for the tourist en route seem to have made the sport one of the greatest of the various ways of spending a vacation.

There is, however, a grave danger attending the camping, but the danger can be held to a minimum if those abroad merely use common sense and discretion. This condition arises from careless sanitation both in isolated and concentrated camps.

A serious typhoid epidemic may arise from careless sanitation as well as many other evils, but if the motor camper is careful as to the location and care of latrines the danger is reduced to a minimum. This department of a camp should be placed with regard to drainage and water supply and left in the best possible condition. It is not only dangerous but may be unsightly and obnoxious to the next person attracted to your camping spot.

Easterners will be west and Westerners will be east; there will be a great intermingling of our people and there is no doubt but the travelers will be received with a great welcome, but as is the case with all other guests, the thing can be overdone and in years to come the camper may be treated as an invading enemy. It is also possible and highly probable that the opposite condition will arise.

Conditions will continue to be pleasant as long as the camper will treat the other fellow and his property with the same respect as he would exact of the other.

Set rules prevail in municipal and other public camps and usually there are parties on hand to see that these rules are enforced so conditions will probably be up to snuff in these places, but in the isolated camps picked for a night or so the danger lies and it is here that the camper will have to use his care and discretion.

Rubbish that is burnable should be burnt, that unburnable buried. And papers and refuse removed and latrines covered before the camp is left. If surplus firewood or anything else that might be of use to a camper in the future is to remain, place it in a neat pile in a conspicuous place. In fact leave conditions just as good or a little better than you found them. Before you embark on the next leg of your journey, after all is packed and the motor running, stop and look over the campsite carefully and then cast off and away.

Campfires and fire hazards have been purposely passed up until this time. Supposing that on your tour this summer you were to leave New York City and drive to Chicago on a beautiful broad boulevard lined with magnificent dwellings on each side of the highway. No doubt it would provoke a great deal of comment as to the vast building project entailed. But supposing you were told that each year, the beautiful forests of America were burned to that extent! Quite a shock? Yet it is claimed that this is what happens.

Campfires should be out and doused before a campsite is left whether you are in a fire area or not. It's a good habit to get into. The use of tobacco also plays a part in the destruction and careless motorists may start fire in half a dozen different places in a day's

Our income from advertising is put to work for conservation.

time by tossing a cigarette into the grass along the highway. Be sure that you toss the discarded "nail" onto the roadbed and try and form the habit now of breaking your match stick in half before it is tossed aside. A broken match losses half its efficiency as a fire hazard and furthermore it's pretty hard to break them without a burn if they are lit.

Motor camping is practically a new sport and should the public get together and raise its standards to a high level, it will even gain in popularity and rise to be as great a commoner as its predecessor, angling.

Mr. Bow states that his files are now complete and that he is in a position to furnish details on motoring and camping in any locality.

Will your chapter be represented at the

Fourth National Izaak Walton League of America

Convention

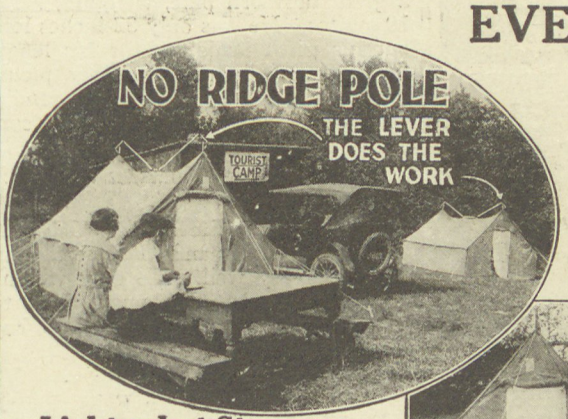
to be held in the

Hotel Sherman
Chicago

April 8-9-10 1926

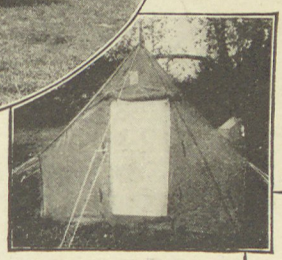
Tell Your Motor Camping Troubles to
HOMER BOW

THE WENZEL POLELESS WALL TENT USED EVERYWHERE



Has all the advantages of the popular wall tent, but without the ridge pole. Rope ridge and lever arrangement eliminates ridge pole — uprights and ends are seamless steel sections which fit into each other.

Folds compactly into bundle smaller than a golf bag. Can be easily carried on running board or back seat of car. Quick and easy to erect.



Lighter but Stronger

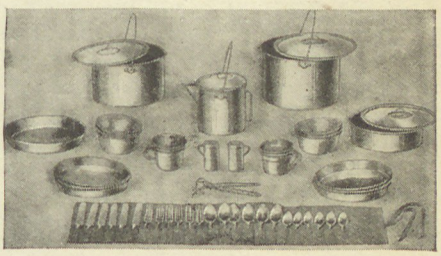
The Wenzel Poleless, size for size, is lighter than other types, although heaviest weight khaki duck is used. Why? Because there is no heavy framework to carry. The Wenzel Poleless permits better cot arrangement, as entire interior is unobstructed and affords ample head-room.

Select the Wenzel for Your Next Trip

The Wenzel Poleless is roomier, lighter, wraps into smaller bundle. Made of U. S. Army mineral dyed khaki duck — patented. Nothing else like it — yet sells for less than most tents and only a bit more than old style wall tents. Write today for literature and full information.

H. Wenzel Tent & Duck Co., 1075 Paul St., St. Louis, Mo.

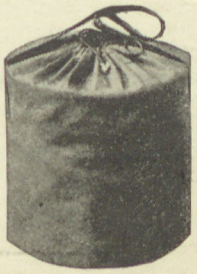
The Handiest Kitchen You Ever Saw



Here's a kitchen — and cupboard, too — that completely nestles together, goes into a canvas sack and can be tucked into small space on your outdoor trip.

It's the handiest outfit imaginable. No matter the size of your party — from 1 to 6 persons — there's a West Bend Camp Set with the right number of utensils and dishes for it.

Made hard so they won't dent — thick so food won't scorch — sturdy for long wear — yet until you see a set you can't realize how light a complete kitchen can be, how complete a set of cooking and serving pieces can be kept clean and handy in a small sack. Send the coupon today.



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Mostly About Boys

(Continued from page 50)

attempts, my uncle netted him. He was a great northern pike, weighing 7 lbs., 10 ounces. He was only 32 inches long, but his girth made up for his length. Of course I had to have my picture taken with the fish, and I am sending you one of the prints. Hoping to come again, I am, Sincerely yours,

NORMAN STAIGER.

. . . . . .

The pike is quite a game fish after all, isn't he, Norman? I remember my first one very well. He only weighed four pounds, but I thought him the father of the whale tribe! We hope too that you will come again.

. . . . . .

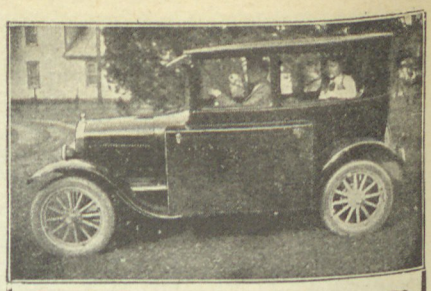
Iowa Falls, Iowa.

Dear Editor and Fellows:

My father is a charter member of the Iowa Falls chapter, and likes to hunt. He was born in Iowa about fifty years ago, when there was lots of wild game in our state, and I believe has one of the first hunting licenses issued in the state after the law was passed requiring licenses. I am nine years old, and I believe I am the youngest boy in the state to have a license. I want to tell you about the hunt we had last fall. The state game department gave notice that there would be a three days' opening on cock pheasants, October 20th, 21st, and 22nd, in nine counties north of us. So the night before I had my shotgun and shells and game bag ready, as dad and a friend were going to drive about seven miles to the hunting ground. Now at 4:00 in the morning when dad called, "Son, get up," it did not take me half the time to dress it usually does. It was dark and frosty outside, but I climbed into the back seat beside the dog, and we drove north into Franklin county. We had to wait till just before sun up before we started into the field.

As other hunters began to shoot in fields to the north and east and west of us, dad said, "Son, load your gun, and be careful." Believe me, fellows, the way I snapped that shell in wasn't slow! Out along the cornfield and along a ditch with high weeds on each side of it. When about halfway through, out went a hen pheasant right in front between dad and me. As I put my gun to my shoulder dad said, "That's a hen!" and away she went. We went a few rods farther and out went a cock on the other side of dad. At the first shot from his 16-gauge it swung around, but at the next shot came down dead. Dad said our shot was too small. We hunted around and got up several hens, and then came back home as I had to go to school.

At four the next morning we were on our way again, but dad in the meantime had gotten some larger shot. We went out to a marshy piece of land that was covered with high weeds. I had gone about eight or ten rods when up went a cock pheasant right in front of me. When the gun cracked that old fellow



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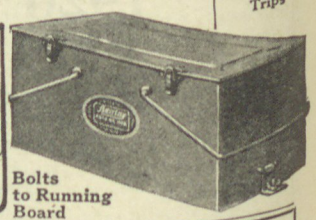
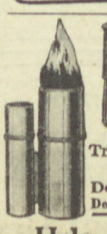

Bolts to Running Board



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sure took a tail spin! The next one got away from me. I found that I had to shoot quick, and when the next one got out and the gun cracked, that one hit the weeds too. Now we had the limit, as we were allowed three each day. That day it wasn't so hard to hit them, as I had gotten onto their speed, and the cock bird, I found, generally made a noise before they got up to fly. I am sorry to say that there were lots of game hogs that killed the hens and got away with them, and some that just killed them and left them lay, afraid of being caught with them. Poor sportsmanship, I say. A hunter can tell the difference if he will wait.

I will close, and if this gets by, I will tell you about my jack rabbit hunt. So long, fellows.

REX CROFT.

Michigan opened her first season on Ring-necks this last fall, and the editor had his first innings with them at about the same time you did, Rex. Our experiences were about the same, although I must admit that you beat me. I failed utterly to touch the first cock that flushed ahead of me, and I shouldn't be surprised if he was still going, from the way he left me. Great game, aren't they? What you say about the hen birds is all too true, and older sportsmen can well take your advice. We'll be waiting for the jack rabbit story.

. . . . . .

Omaha, Nebraska.

Dear Editor:

My brother Stuart and I spend our summers on Lake Koronis, about two miles from Paynesville, Minnesota, and about ninety miles north of Minneapolis.

Stuart was fishing in the lake about ten feet away from the dock where three or four fellows were in swimming. He was only fishing for small fish and was throwing them back in as fast as he caught them, using a real small minnow hook, the smallest he could buy, with the barb filed off. He hooked a seven or eight inch sunfish, and was having some fun playing with him, when Zip! Mr. Northern Pike made a grab for the sunfish. He only got its tail however. He made another dart at it, just as the sunfish got loose from the hook. He missed the sunfish and got caught on the hook himself. Stuart fought him awhile, and finally got him stretched out on top of the water.

"What shall I do now?" he wailed. "If I try to lift him in by the line, the hook will break."

"Take hold of him back of the gills, and lift him in," said one of the boys in swimming.

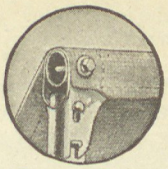
"Will you swim out and do it for me?" asked Stuart.

"Nothin' doin'! That would scare him and he would probably get away."

"Gosh, I don't believe I can do it!"

"Nothin' like tryin'!"

"Oh, well, here goes for it!" He reached down and carefully took hold of him back of the gills, and lifted him quickly into the boat. He didn't look so big after he was out of the water, but he weighed about five pounds, which



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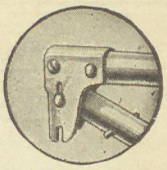

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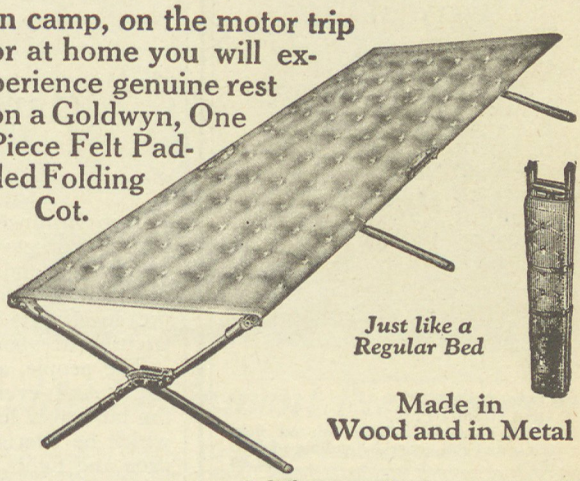

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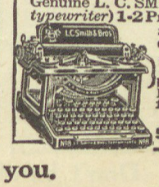

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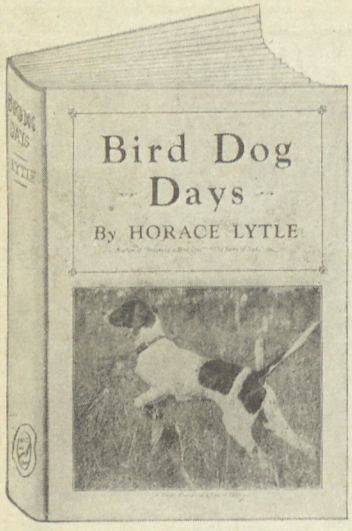

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is pretty good for the size hook that Stuart used. He was a mighty proud boy, you can bet! Yours as ever,

PHILIP JOHNSON.

One of the most unusual and interesting fishing stories we have heard around the fire, and one of the best I ever heard. Sit up and listen to it, some of you old timers who sneak into this department occasionally, and see if you know a true one as good!

Harold Titus

(Continued from page 14)

Two instances, these. Every phase of the conservation problem presents its analogy and the two great obstacles in the way of a clear understanding is the inertia of masses and the eccentricities of sportsmen.

The people, as a whole, are indifferent. And every fisher, every hunter the land over has theories, pet theories, which he cherishes as he does his children and fights for and gets mad about and, with the usual exceptions again, has no background for.

I used to have theories myself. It was hard to realize that I am unequipped to give answers to the problems which confront one who sees his out-of-doors going to pot. I wanted to try things; I wanted to argue; I wanted to insist that my pets be given a chance. . . . Some were, to my enlightenment. And now I am ready to step aside and make room by the patient's bed for the doctor. I feel it is America's one chance and that, unless it is done NOW the great out-door tragedy of all time will be enacted to its slow, final curtain.

The Moon Lake Wild Life Refuge

(Continued from page 19)

The Milwaukee Chapter now finds itself possessed of nine hundred fifteen acres purchased for approximately Thirty-Five Thousand Dollars or less than Forty Dollars an acre. Moon Lake, approximately one hundred eighty acres is enclosed in this tract. The members contributed in amounts ranging from Ten to Two Hundred Dollars. Some paid their contributions at once while others will make three annual payments.

While the Refuge is now a reality more numerous and more generous contributions are needed if this good work, so immediately beneficial to forest and wild life, so promising for the future and so real a gift to Wisconsin's children and grownups, is to be ultimately successful.

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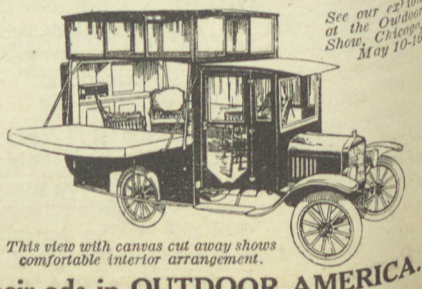

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ested in the plans of the Milwaukee Chapter for administering this Refuge. A caretaker will be immediately placed in charge and the land posted. No hunting will ever be permitted on the land. Later on, fishing may be permitted under certain restrictions.

A special Committee of eleven members of the Milwaukee Chapter will have charge of the Moon Lake Refuge. This Committee will be divided into five separate Committees, of two each, and these smaller Committees will have charge of the following conservation projects:

1. Propagation of Water Fowl.
2. Propagation of Upland Birds.
3. Propagation of Small Furred Animals.
4. Propagation of Fish.
5. Reforestation.

The first thing to be given attention will be the migratory birds, especially wild ducks and geese, now heading North. A number of interested Milwaukeeans already have offered the Committee domesticated Canada geese and mallard ducks. These will be released on Moon Lake, with clipped wings, will be fed and cared for, and will act as "callers" for their wild brethren who will pass overhead. Feed will, of course, be scattered.

The Milwaukee Chapter heard Jack Miner tell of his wonderful success in attracting wild fowl to his refuge near Kingsville, Ontario, and they are hopeful that they may be favored with a small measure of his success.

The Committee also expects to plant wild rice and other aquatic plants and it will set out many bird houses for martins, wrens, woodpeckers and other hole nesting birds.

While this is being written plans are being carried out to save grouse and other upland birds already on the refuge, from smothering under ice covered snow drifts. Each year, in the early spring in this locality, sleet storms, or heavy thawing by day, and freezing by night, encrusts many birds under the snow. They burrow into the drifts for shelter from March blizzards. Often whole coveys are killed by smothering or starvation because they cannot work out again through the ice crust. The Committee hopes to prevent such losses in the future.

The reservation is to be open to the public under careful restrictions. It is planned to build trails and observation areas in the swamps, hillside forests, and waterfronts so scientists, biology classes, school children generally, and others may observe the habits of wilderness creatures.

It is a gratifying thing to members of the League to know that farmers and others in the vicinity of the reserve have been eminently friendly and helpful toward the project. They realize the economic value of the bird life in that they save millions of dollars annually for the farmer by destroying the injurious insects which prey on growing crops. The possibilities for good are unlimited in a project of this kind.

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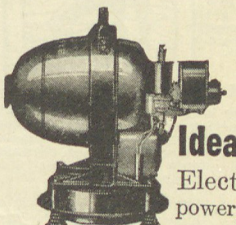

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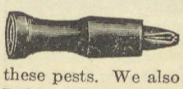
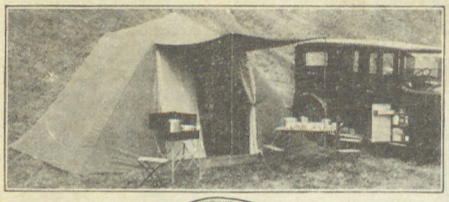
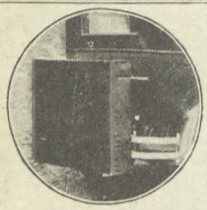


You are invited to procure Olt's Famous Perfect Crow Caller $1.00 each and wage war against these pests. We also make the Olt's Famous Hard Rubber Duck Calls, **PHILIP OLT, PEKIN, ILL.**



Simple Neat



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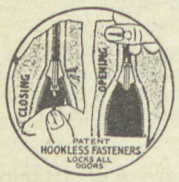
America's Finest Camp

BY actual comparison this Wildwood Camp Outfit is far superior to any other on the market. The equipment is complete, the material of the very best obtainable. Outfit consists of large umbrella tent, 8'x14', guaranteed water-and mildew-proof; two double spring beds, Kapoc mattresses, bedding, pillows, etc. All pack in carrying case supported on special attachment at rear of automobile. Running board trunk converts into table—carries stove, 4 stools, aluminum kit, etc. (Patents for entire outfit applied for.)

Quick Positive



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The famous Zipper patent—a feature you'll appreciate. Closes tent quickly, positively, securely, with little effort. Insures protection against bugs and mosquitoes.

The Wildwood Complete Family Camp is extremely reasonable. Write today for prices. Use coupon. See our display at the Hotel Sherman April 8, 9, 10.

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Without obligation please send me prices and illustrated circular on the Wildwood Complete Family Camp.

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Remington Sportsman's Knife

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The Name "Remington" on the blade is your guarantee of quality.

Length 3⅞ in. closed.

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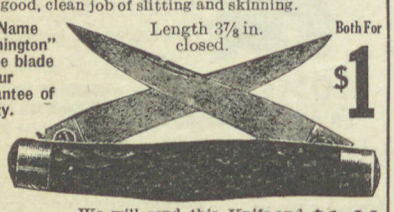

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NATIONAL SPORTSMAN MAGAZINE
298 Newbury St. BOSTON, MASS.

Outdoor Literature

Reviewed by
THOMAS AMBROSE
Vice-President I. W. L. A.

JUNGLE DAYS by William Beebe, illustrated, 201 pp. G. P. Putnam's Sons, New York.

William Beebe, whose glorious "Galapagos" was one of the best sellers of 1924, gives in Jungle Days the fascinating story of a sojourn for the study of life and death in the tropics along the Mazaruni River in British Guiana—land of eternal Spring.

This wonderfully written book compels the thought that if more scientists, like Beebe and Fabre wrote like novelists, following the example of the author of "The Bee," novelists would have to turn scientists to find their reading public. That Beebe the scientist has found *his* public is evidenced by the fact that the first printing of Jungle Days was in July, 1925, and the *sixth* printing in December following: Six editions in as many months!

In "A Chain of Jungle Life" we find that the most trivial happening is a link in the endless chain of life and death that circles the globe:

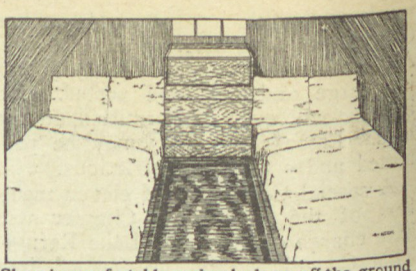
"Somewhere today a worm has given up existence, a mouse has been slain, a spider snatched from the web, a jungle bird torn sleeping from its perch; else we should have no song of robin, nor flash of Reynard's red, no humming flight of wasp, nor grace of crouching ocelot. In tropical jungles, in Northern home orchards, anywhere you will, unnumbered activities of bird and beast and insect require daily toll of life."

Clad in a bathing suit and armed only with a flash light he lies at midnight upon the beach with all the uncanny crawling and creeping things circling about seeking what they might devour—from daddylonglegs to a great anaconda, "who while I watched shadows a few feet away, had slowly drawn his mighty length past me up into the gully beyond to coil and watch with lidless untiring eyes for its share in some life of lesser strength."

"A classic volume will some day be written on the adventures of fallen leaves, for when a leaf has evaded the inroads of insects and fungi, has resisted wind and rain, succumbing finally to the pull of gravitation, there awaits it, in addition to ultimate mold and desiccation a host of possible adventures on the jungle floor.

"Botanists tell us that the leaf is the foundation of flower and fruit so that it was really only a mass of highly specialized leaves which introduced Newton to gravitation."

There in a Munchausen-like chapter dealing with that curious contradiction that goes through life upside down sus-



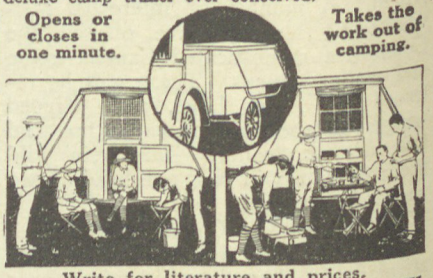
Sleep in comfortable spring beds up off the ground

Zagelmeyer
De Luxe Auto Camp Trailers

Once you know the comforts and conveniences of a Zagelmeyer Camp Trailer you will regard tents and all other similar outfits as makeshifts. Attached or detached in one second without tools. Weighs only 550 lbs. Trails perfectly behind any car at any speed, on any road, without drag, wobble or sway; 36 cu. feet of packing space between berths accommodates all luggage. Trailer opens up ready for use in 60 seconds. Contains two double spring beds, soft mattresses, built-in kitchenette, two folding tables, ice box, electric lights. Storm proof, insect proof, trouble proof. No poles, stakes, ropes or snaps required. Completely self-contained. Lightest, most practical, most convenient, most comfortable and most deluxe camp trailer ever conceived.

Opens or closes in one minute.

Takes the work out of camping.



Write for literature and prices.
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(See our exhibit at Outdoor Show, Chicago, May 10-16)

Indoor warmth for outdoor men

Foresters, timber cruisers, loggers and lumbermen find Woods Arctic Sleeping Robe the warmest sleeping equipment made. Absolute protection and warmth in sub-zero weather. Warmer than many blankets, they weigh less than a pair. Easily portaged, easily cleaned, easily aired.

Woods ARCTIC EIDERDOWN Robes

are constructed of tubes filled with eiderdown, a lining of pure virgin wool kersey and a covering of the best high count cravenetted olive duck. They hold heat like a thermos bottle. See your dealer. If he can't supply you, send the coupon.

Woods Manufacturing Co., Ltd.,
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Gentlemen: Please send me full information concerning the Woods Arctic Robe.

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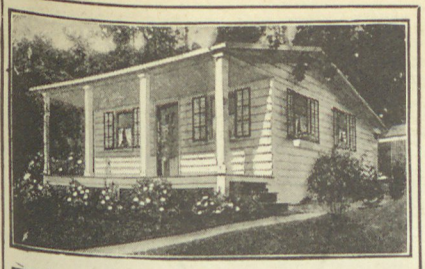
BOWER MFG. CO. Box 18 FOWLER, IND.

Our Advertisers help us, let us help them.



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THESE wonderful summer bungalows are now made in 6 sizes, varying from 3 to 5 rooms with porch.

Introduced for the first time last summer, the Bossert "Radio" Bungalow sprang into instant popularity among vacationists everywhere. Whether for seashore or mountains, the "Radio" is the ideal type bungalow.

It is easily erected by unskilled labor within a day and a half. Being really portable it can be taken down quickly and put up again without trouble. Sturdily built, lasts for years. Immediate shipment.

Write at once for free folder giving complete floor plans. Send 20c for new 48 page catalog.

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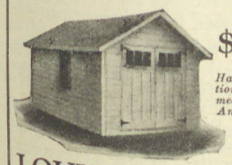

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Dept. 2 Coldwater, Mich.

PRATT-FOLD CAMP FURNITURE

pended by its toe nails on the underside of boughs—the Sloth—whose every movement is like a slowed-up moving picture—"chronic pacifists, normal morons, holding their own amidst the struggle for existence."

"Old Time People" is a quaint study of the monkey tribes, and the elaboration of a whimsical "Theory" may be read with sentiments determined by your mental slant at the sight of that bogie word "Evolution."

The author's jungle table was a mahogany board "close to the heart of which is a strange ring, or node between rings, a wide, even space, which my reckoning places about 1776, about the time when our forefathers were fighting for freedom, whose memory we may not toast even in wine; they had just penned a Declaration of Independence, whereas we are considering passing a law to keep monkeys in their proper place. I pause in my table talk long enough to thank heaven that we are still allowed to believe in the rotundity of the earth, that the Indian's gift of tobacco is still permitted us, and that tea is not yet thrown overboard."

The concluding chapter of the book is devoted to "The Bird of the Wine-Colored Egg."

This is the Tinamou, the South American substitute for our partridge and quail—and according to our author who has shot and eaten these birds, the substitution is "eminently satisfactory." While there is a full page picture of this quaint bird which has a family likeness to a diminutive Bustard it is matter of regret that the author, scientist though he be, does not give its weight or size.

In a New York restaurant of the better class I have had served a bird very like our Bob White, only about half again as large and with a little metal tag attached to one foot. This is the Tinamou as we know it. By legal enactment, New York and eight other states permit the importation of foreign game, and as the Tinamou has a range of more than twice the extent of the United States and the proportion of males to females is at least four to one, there is little danger of exterminating the bird to supply the foreign market.

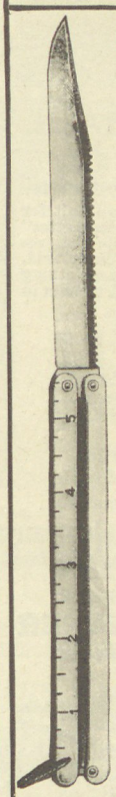
L'Envoie

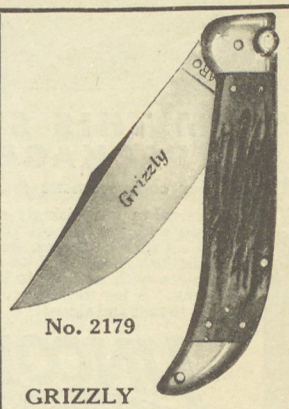
"When the city presses too closely, when four walls suffocate as well as enclose, when people oppress as well as associate, then I go to the bird house at the Zoological Park and at five o'clock there seldom fails me a sweet, clear staccato of silvery tones. Body and soul, I am back in the Guiana jungle, with the cool night settling down, a distant howler clearing his throat, and a bass chorus of giant tree frogs rumbling across the river. Then the Tinamou calls again and the world is reoriented."

THE ANCIENT HIGHWAY—A Novel of High Hearts and Open Roads, by James Oliver Curwood, Illustrations by Walt Louderback. 373 pp. Cosmopolitan Book Corporation, New York. $2.00.

In this, his latest book, Mr. Curwood

KA-BAR KNIVES





No. 2179

GRIZZLY ALL-PURPOSE KNIFE

Pat. Pending

Press the Safety Button and —*zip!*—the blade is open and securely locked.

It's a skinner, a slicer, a shaver, a chopper. It is the toughest blade made and the sharpest.

This knife is *safe*. The patent blade lock is reliable and durable. Its click sounds like the mechanism of a fine gun.

Handle of beautiful *genuine buck horn*. Bolsters solid nickel silver, linings double strength brass. Length closed, 5½" Blade 4½". Price $5.00.

X57½—STAINLESS STEEL FISH KNIFE

KA-BAR Stainless Steel blades are keen and tough. The X57½ blade has deep, sharp cut scaler back. Handle is of heavy nickel silver. To close knife, swing halves of handles to reverse position.

Length closed 5½ inches. Blade 5 inches. Price $2.00 each.

No. 661

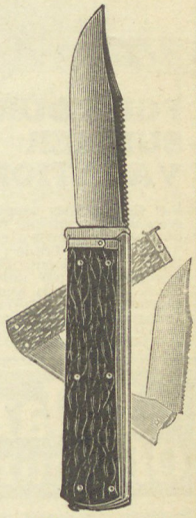
STAINLESS STEEL FISH KNIFE

"The finest of all Fish Knives"

The double folding handle entirely covers blade when knife is closed.

Blade locks open. Extra sharp point and edge. Saw-tooth scaler back. Ripper point.

Blade 4½ inches, length open, 9 inches. Price $3.15.



Do not buy a knife ground like an axe. Remember it is the quality in the blade that makes a knife valuable to you. A low quality blade ground thick at the edge will not cut easily and requires frequent sharpening.

Good grinding is an ear-mark of true quality in steel and expert workmanship.

KA-BAR Knives are made by an organization that for 27 years has had just one aim: to make a greater service quality in knives and razors regardless of cost or demand.

The KA-BAR line comprises the finest and largest line of Outdoor Knives made. Hunting Knives, Trapping Knives, Camping Knives, Fish Knives, Combination Knives, Knives for the Boy Scout. Write for folder.

UNION CUTLERY COMPANY, Inc.
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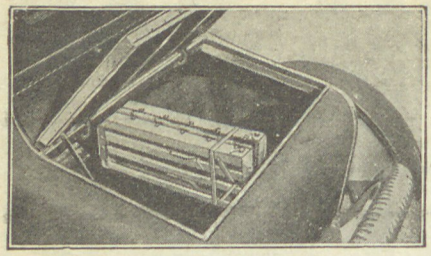

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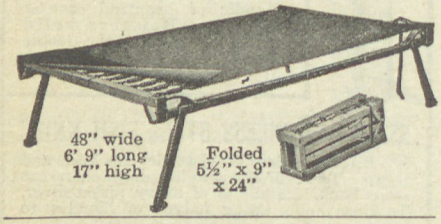
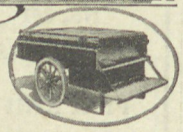


The **"AUTO-KAMP" TRAILER**



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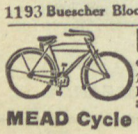

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MEAD Cycle Co., Dept. B-247 CHICAGO

has turned aside from his beloved Northwest to tread The Ancient Highway in the domain of Sir Gilbert Parker—where he meets many interesting personages, among them Clifton Brant, the dead man of Haipoong come to life, one time Captain in the Princess Pat Regiment in the World War, descendant of the great Mohawk chief and hopelessly in love with Antoinette St. Ives, a daughter of the old siegneurs. Around these central figures move habitants, Indians, lumberjacks, rival owners of vast tracts of woodland and pulp mills with plots and counter plots, thrilling with modern life against a background of Old Quebec, the Lake St. John region and the noble rivers pouring into it from the uncharted north.

There is fighting with bare hands, man to man—plenty of it. A quick coup by airplane, the secret construction of a great reservoir to hasten the Spring drive of logs. The blowing off of a mountain top to block the stream and drive, the dynamiting of the log jam by the hero, who risks his life to serve the girl who spurns him, and finally the girl who has been eating her heart in secret, springs into the flood to die with the man she loves. The usual miracle happens and they live happily ever after.

A clean, wholesome up-to-date romance in the glamour of a transplanted Old-world setting, and of the Great Out of Doors, told in Curwood's best manner.

A story that grips and holds you from start to finish. "Mein' Liebchen was willst du mehr?"

* * *

Books for review should be sent to Thomas Ambrose, 330 East 22nd Street, Chicago, Ill.

El Comancho

(Continued from page 9)

drive us. We do not need the land they occupy, for we still have millions of acres without a single person to the acre, and an acre of ground anywhere almost will support one man one way or another. Why, then, should we be so short-sighted as to want to kill—kill—kill! It's a rotten recommendation for the species that considers itself the greatest and most advanced of all!

Let's stop it. Let's plant trees—not destroy them. Let's be friends with them for the neighborly goodness and pleasure of the association with them.

There is something about a great, silent, waiting forest that makes man feel small, even though he admits that he belongs to the "most enlightened" species. There is a temper-like quality that one senses just by walking through a brave company of great sturdy trees which have stood, so calm, so still, so patiently down through the hurrying

One Night Stop

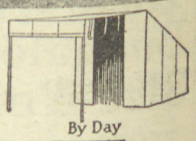
For a Longer Stay

The same Outfit is shown at right, set up separate from the car.

A perfect bed with Schilling's Famous Combination Spring Mattress Fabric.

Highest quality water and mildew proof, convertible tent.

Most available head room ever built into a tent. **Entirely new**



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IT IS THE 1926

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"THE QUICK AND EASY WAY"

Write for our new Catalog showing many exclusive and novel Touring and Camping accessories. From Factory to User.

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Keep DRY in wet weather Wear PERFECTION CAPE

Especially designed for camping and fishing. Open along sides and sleeves for convenience and ventilation. Closed front protects limbs and body. One-piece sleeves permit active swinging movement. Mexican collar keeps streams of water out of neck. Guaranteed waterproofed or money back.

Sizes, 36 to 44. Best grade featherweight silk, 20 ozs. $9. Packs 8x1½x4. Three lower price grades. "Carry a rain cape in your pocket."

CATALOG SHOWING my complete line of comfortable camping goods on request.

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Camp Goods Folks
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16 PAGES

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NO CUTTING DOWN SEATS!

No tents, springs, poles or cots to carry. New (1925) Patent. Assures Pullman comfort. No cold nights—no wet bedding—no dread of animals, reptiles, mosquitoes. Folds and telescopes into neat, classy pkg. 3x6x26 in. **Weighs 10 lbs.**

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GREATEST TENT VALUE EVER OFFERED

Entire tent made of durable close-weave Water-proof Olive-drab tent fabric. Full 7x7 ft. Complete with floor, awning, screened window and door with curtain over each, metal frame, stakes, jointed pole and carrying bag. Only $23.50 delivered (West of Denver $27.50 delivered). Same tent 9 1/2 x 9 1/2 ft. $31.50 delivered (West of Denver $35.50 delivered). Send No Money—just send name and address and pay only price of tent on delivery—We prepay transportation charges. Factory prices save you money. Satisfaction guaranteed. Send for FREE catalog and price list of other tents.

Why Pay More? LEROY TENT CO., 3733 McDonald Ave., St. Louis Mo.

When writing to Advertisers give credit to our Magazine.

centuries, that they impart to the thinking beholder a subtle something that makes for toleration, for patience, for bigness and a certain calm serenity of mind that makes one a better man and a better citizen.

If you doubt this, go and spend a week among the mighty Redwoods or in the dense fir forests of the northwest coast, or among the southern pines, the hardwoods of the middle states, or the white pines of the north. Then write and tell me you don't think we should conserve the trees—if you dare!

Cora Johnstone Best

(Continued from page 15)

still is. Because of their fear of her the ancients offered sacrifices to her, and finally deified and worshipped her. A remnant of that barbaric superstition still remains, and many people are deathly afraid of killing cats or molesting them in any way lest "bad luck" should fall upon them. What we need is an educational campaign that will show the cat just as she is.

There was a time when we kept chickens overhead in our kitchens; we kept pigs, sheep, horses, and cattle under the same roof with ourselves. Why don't we do so any more? Education, —we are civilized beyond it.

When I was a wee child I learned a verse about a "poor little fly" that had fallen into baby's milk. No thought for "poor baby" *then*. But education has changed *that*. We no longer allow the fly to have free camping ground on our food nor to bathe in our cream pitchers. We have learned the meaning of *that* danger. Now we swat the fly,—kill him and destroy his breeding places. One by one we have cleaned up such sources of disease. We have turned corner after corner in the education and development of the human family, and at every corner we have left behind superstitions and practices that had no place in the new light.

But stalking and skulking at our heels, protected by us and nurtured in our bosoms, we still treasure this treacherous, parasite-spreading, disease-carrying filthy creature who has no morals, no loyalty, no love,—not even the common decency that the other animals have. We give *this* to our children for a "pet,"—then wonder why the children are thin and pale; wonder where they could possibly have contracted measles, scarlet fever, mumps, chicken pox,—*all* the ailments that are so common amongst our people.

When are we going to come to our senses and grow out of this maudlin sentimentalism, this superstitious cat worship,—worship of a creature who is more of a menace to our wild life than any one thing we can mention, and who is surely a source of most appalling danger to our children?

We teach children (else where would they learn it?) to kill snakes, to avoid handling toads. There are few

(*Continued on page 71*)

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Our specially woven, double-processed drill is as near 100% proof against rain, snow, wind, dust, etc., as any tent can be made.

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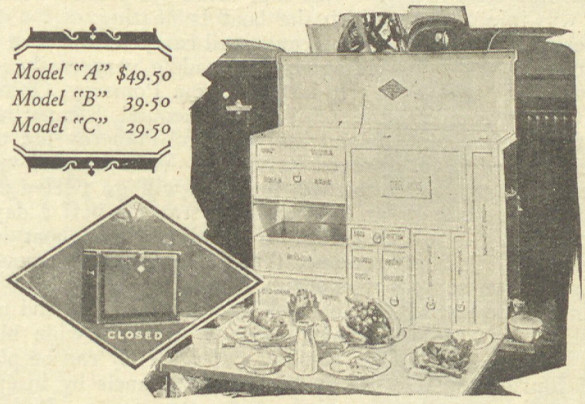

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Brooks Tent & Awning Co.	Denver, Colo.
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Walter H. Allen	Paris, Texas
Oklahoma City Tent & Awning Co.	Oklahoma City

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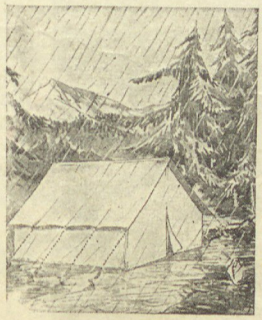
TOURIST *Kitchenette*



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Canoes and Small Boats

Devoted to Small Craft

Edited by EDGAR S. PERKINS
Editor WATER SPORTS, the Only National Canoe Magazine Published

A Home Made Canoe, built without nails

AS a matter of interest to our readers on something out of the ordinary, inexpensive, and also to prove that the whiteman's ability is equal to the Indian's even in this modern age, the following is set forth.

Mr. William G. Silvus, boy scout executive and Izaak Walton enthusiast, writes: we have constructed an eighteen foot Indian canoe made without use of nails or thread and have found it more serviceable than the ordinary canoe. The plan of construction was similar to that used by the Indians and trappers. Total cost about $25.00 not counting labor and time used. It was interesting work and merely an experiment; the result was very satisfactory.

The covering is made of twelve ounce duck covered with one coat of shellac and two coats of varnish, making it the color of well tanned hide. The keel is one long green hickory pole so curved at the bow of the craft that it provides a handle for the carrying of the boat when making a portage. The keel strip at the stern is split to serve a double purpose; it protects the motor that can be attached and also serves as a double handle.

The frame is made of fourteen small green hickory poles, bent to give the shape and the whole frame of poles is covered with a network of steel wire lath arranged over it. The ducking is placed over the steel netting. The seams are made by shellacking the strips of duck together, allowing a four inch lapping. The joints in the framework are held with stout twine that gives flexibility which is the chief virtue of the craft.

The steel netting will bend and give when the canoe strikes an obstruction in the water. Thus the duck does not tear and the wire frame returns to its original shape. Another feature is the ten inch gunnels. On an ordinary canoe, the gunwales are about two inches. The canoe has a forty-five inch beam and is so stable one can lean over the side and drink from the stream in which the boat is floating.

The canoe will carry four or five people safely and paddle very easily. On a trip last fall from Pomeroy, Ohio, up the Ohio River around Blennerhasset Island and back to Pomeroy the craft proved its worth. With a small motor attached, the boat will go twelve miles an hour and can travel a half a day on a gallon of gasoline. The boat is so equipped that the motor can be mounted or dismounted in a few seconds.

The paddles are very light and made of white pine with extra wide blades for shallow water. They can be placed flat on top of the gunnels by inserting the blade under the straps. Provision is also made to repair holes in the duck, although the occasion for doing this has never happened as yet. The patch of canvas to be shellacked on and further secured by use of a sack needle and twine sewing through the steel net work of the body. This repair kit is packed in a neat roll and securely lashed to one of the running strips in the bow end.

The two sacks of ground cork, which serve as life preservers, give that added sense of security not to mention the ideal back rests they make for the extra passengers to use in comfort.

With a weight of less than 100 pounds and a beam of forty-five inches, this canoe meets most of those requirements one usually meets on an extended voyage. Walking on the lattice work or entering the canoe while the bow is high on the landing seems to have no more effect on the permanence of shape than would the bending of an archer's bow.

The canoe.

Safety of a Canoe

For the education of the unenlightened few, it might be well to discuss the action of a canoe alone. After years of experience, sometimes involuntary, anyone will learn that fear of a canoe capsizing or swamping is groundless. You will learn that canoes, while they can be tipped over from within, offer no grip by which waves or wind tip them over from without. Have heard of instances where empty canoes have gone through bad rapids without an accident, but would not consider it a good practice, although it seems to prove the contention of the lone canoe's safety of action.

I presume many of our readers have, like the writer, lain flat on your back in a canoe and let the gale and sea drive you safely ashore. You will see thousands of waves, which look as though they would swamp you, merely heave the canoe high and dry on their shoulders.

You realize there is no danger, but it is oftentimes easier to work than to just sit and try to remember there is nothing to fear. A good canoeist should learn to handle his craft in the same manner as a good horseman does. He sits easy in the saddle and lets the horse pick its own way over a difficult stretch of travel. The canoeist, of course, must do some paddling, but too much brawn will sometimes be disastrous.

It all goes to prove that while a veteran

Watch the NEW L-A TWIN Leap to the Front

Keep your eye on the "Dark Horse of the 1926 Rowboat Motor Field." Six months ago few folks would have conceded leadership to the L-A Twin. But now the race is on. The L-A Twin is in action—and, man alive, how it is coming down the stretch. If you enjoy the thrill of picking a winner, you'll want to be one of the lucky ones to get a new L-A Twin this year.

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The L-A Twin is *New*—New in many outstanding features. Yet it is backed by all the careful engineering and practical experience gained through our 22 years of building marine engines. Match these qualities with any other motor:

Phenomenal Power
At normal speed develops 3.85 H.P. (Brake Test.) In racing trim develops 4.65 H. P. (Brake Test.)

Startling Speed
In actual measured test made 14.28 miles per hour on a 14 ft. modified V-Bottom Boat with 145 lb. operator.

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Weighs only 14.29 lbs. Brake H. P.

Underwater Stream-Line Design
Cuts the water "like a knife."

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Doesn't "churn" the water—uses all the power to push the boat.

Combination Steering
Without a Rudder.

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Protects Boat, Boaters and Motor.

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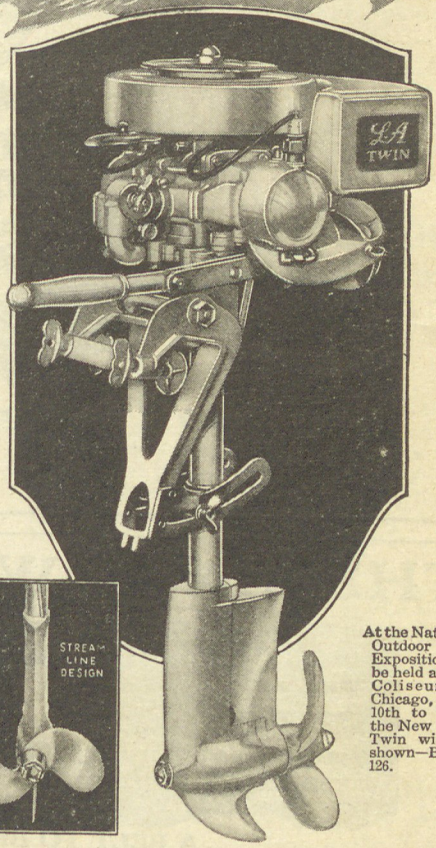

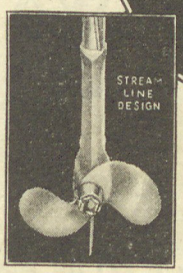

At the National Outdoor Life Exposition to be held at the Coliseum in Chicago, May 10th to 16th, the New L-A Twin will be shown—Booth 126.

When you have seen the new L-A Twin in action—seen it push into the lead in race after race—seen it handle any boat with a new-found ease—seen it ride rough shod over sandbars, logs, rocks and other submerged obstacles without danger to boat, boater or motor—seen it start with an ease and promptness you had not thought possible—and then have seen it stand up to its job with this same dependability day after day, you, too, are going to say, "Give me an L-A Twin." The first step is to—

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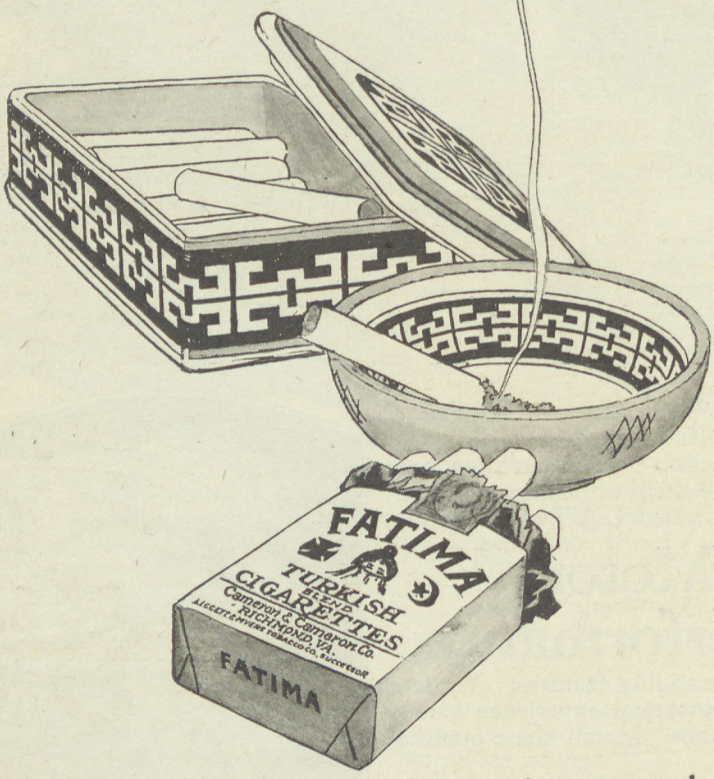

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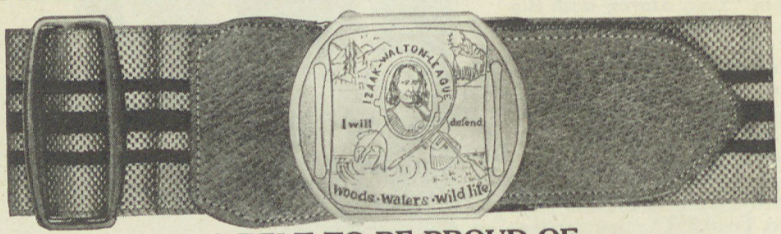

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canoeist may have a strong back, if he would keep his life, he will certainly not own a weak mind.

—Questions and Answers and Suggestions

Would you suggest securing the loads to a canoe when making a trip where there is apt to be an accident?

Mr. B. B.:—Certainly not. Your skill in packing the loads and handling the canoe should minimize accidents. In the event you encounter a rough sea on a large lake and are in danger of swamping, it is quite possible you will want to relieve some weight without having to untie it.

If you figure on this kind of a proposition and realize your skill may not be equal to the task, either give it up (which would be best), or else pack your duffle in waterproof bags and attach a long light line with a floater, and you can pick up the stuff you throw out later.

Remember, in a question of life or equipment, you can always buy new equipment. You should, of course, have on your person such things as a waterproof matchbox full of matches, knife or small axe, and some fish hooks and weighted line may be the means of your eating quicker than usual after a bad accident.

* * *

The following is from one of the readers of our column, Mr. J. D. Pluth, of Ely, Minnesota, and one who is an authority of canoeing.

We are so enthusiastic about the new veneer canoes, and it has been such a success that I doubt if any but veneer canoes will be used in this region within the next few years, once they get permanently established. We are getting two carloads of them (Mr. Pluth is one of the owners and operators of the Wilderness Outfitters at Ely) for next season, and the local people, especially the outdoorsman, trappers, etc., who are most skeptical and hard to convince, have agreed that this is the canoe for this region, and during duck hunting season it was the favorite among all local sportsmen on account of its stability and lightness. Unless a canoe is light, and can be kept light, despite rough usage, it is not a practical canoe for this region, and one very readily realizes this when on an extended trip where a canoe of great carrying capacity is desired, and which must be light, due to the numerous and lengthy portages encountered on many of the routes. The veneer canoe is very easily patched with canoe glue temporarily, as the three-ply veneer when broken through is usually crushed, and all one needs to do is form the veneer back into place and smear with canoe glue; of course, this is only temporary, and we put a permanent patch on when the canoe returns to our warehouse. We have found that the upkeep on a veneer canoe runs about $2.00 a year, as against $20.00 per year for a canvas canoe.

Questions and Answers

What model canoe do you recommend that would be safely and easily

Results mean more advertising. Help our advertisers get results.

handled and controlled by girls at a girl's summer camp?—B. B.

It would have to be a rather stable canoe that would stand rough water. Would suggest either an Old Town "Octca Model," a Haskell, or Morris "Lake Model," Kennebec "Kineo Model" or a "White Built" feather-weight model. The seventeen foot would be the best length. If the girls are very young, and not used to the water, it would be better to get a standard sponson which all large canoe manufacturers carry. This boat will be heavier than those mentioned above and also safer.

I have a canvas canoe on which the paint is very badly cracked. I painted it last spring. I would like to know if it would be best to fill the cracks, or take the enamel off with a blow torch or varnish and paint remover. If filling would be all right what would be the best to use? Also, what would be the best to paint it with?—L. R. M.

It would be best to take the paint off right down to the canvas, as the cracks will get worse until they ruin your canvas. With the exception of some marine glues, there is nothing you could fill the cracks with that would stick under use. If you take all the paint off, would suggest putting a coat of canvas canoe filler on before painting. This filler, if you cannot obtain it from a canoe dealer, is nothing more than a fairly heavy coat of white lead, enough to fill the pores in the canvas. Let the filler dry well, then sandpaper smooth and apply one coat of good canoe enamel paint, and, if desired, a coat of good varnish will give it added life and beauty.

Would you consider a sponson canoe good for sailing purposes?—L. Mc.

The sponson canoe makes a very steady sailing canoe and will also take in less water over the sides owing to its weight and sponsons. It will not as a rule sail as fast as other open type models, although by crowding on sail there will be but small difference, especially as you become efficient in handling. It is well to remember that even though it is a sponson you can tip it over with sails.

Why is it the varnish on the inside of my canoe does not last as well as some others I have seen? I varnish it every year and it does not last hardly through the season, while others only once every two years and they always look well.—M. P.

This may be caused by the fact that you do not do as good a job as the others or use as good materials. You should remove the old varnish and all dirt and discoloration possible; sandpaper smooth and then varnish it. If the varnish soaks in the first coat, then give it two. However, there is another possible reason also. If you use either tennis shoes or barefeet in the

Be sure the motor you buy starts easily and quickly; that it is easily controlled with speed variations forward and backward; that it has plenty of power—plenty of speed—twin cylinders to reduce vibration and is light enough to be easily carried. If you buy a motor combining all these factors you are bound to meet with complete satisfaction—you are bound to buy a

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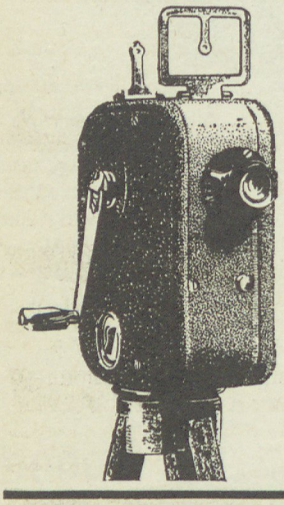

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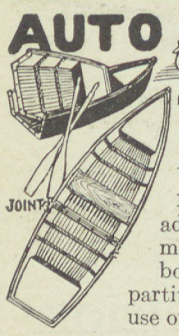

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canoe the varnish will last longer, also keep all sand and small pebbles out of it. Leather shoes will always dig up your varnish especially if there is sand or small stones in it to walk on. You will also find it easier to keep your balance in the canoe in soft shoes and even more so in your barefeet.

The writer is a resident of Illinois and would like to take a two weeks canoe trip this summer in virgin wilderness. Where would you suggest going?—T. L.

The Superior National Forest is one of the most beautiful canoeing sections of the middle west. You can outfit at either Vermillion, Ely, or Winton Minnesota, which is 117 miles northwest of Duluth. If you desire further information regarding this section, I will be glad to answer any questions.

Would you suggest using one large lateen sail about ninety square feet or two of smaller size?—B. R.

My personal experience has been that two about 60x30 square feet area would be much easier to handle than the ninety foot lateen sail and safer.

Can I use a paddle to steer a double sail rig?—J. L.

Not very well. It can be done but is hard to work, unhandy and will slow up the boat. Either put a rudder on or learn to steer by the use of your sails. The former is the easier and safer way.

Would it be possible or advisable for me to try to make my own sails?—T. D.

It is both. Possible—unless you want one of the standard size lateen rigs made by canoe manufacturers it will be necessary for you to make it yourself. There are a few concerns that make canoe sails of special size but none in your section unless a local canvas dealer will do it and in that case you will probably have to tell him how. Most people either make their own sails or have someone they know, to make them.

Would you suggest letting small children use a canoe alone?—N. P.

Certainly not. A canoe is no toy; it is a boat and all boats should have someone in charge that knows something about them. But if you must gamble, use a sponson. It adds a margin of safety, as then the children can only fall out of it the same as they would out of a rowboat. If they have been using a rowboat, they can use a sponson canoe.

Do you consider a canoe yoke necessary on a cruising trip?—C. K.

If you make only one portage the whole trip, you will be glad you took your yoke. I consider it an indispensable part of any cruising outfit and so do all the canoe veterans I have ever seen or talked with.

Ever Since 1898

We were building Racinewis Boats and Canoes when the Spaniards blew up the Maine. And we've been at it ever since, building them better and selling them more economically every year.

Sportsmen have found Racinewis Boats and Canoes *right in every way.* They are light and graceful, safe, fast, sturdy and responsive. Shallow draft, easy to row or paddle—and the canoes are easy to portage.

The "Hiawatha" square stern model canoe with built-in sponsons and several Racinewis Boats are made especially for use with out-board motor. There's a model for every use—and they're all priced right.

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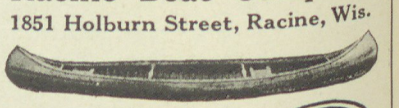

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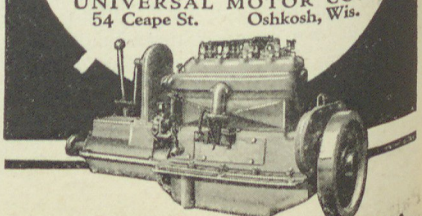

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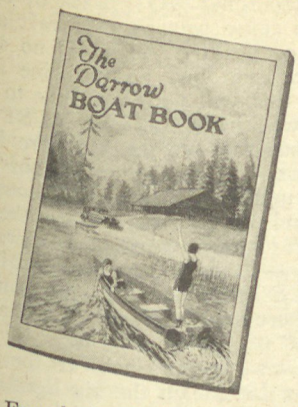

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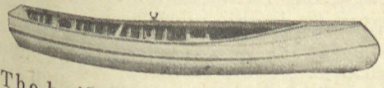
Here it is at last!

THE NEOSHO HUNTER



The builders of ARROWHEAD CANOES have achieved another triumph in this wonderful little hunting and fishing boat for out-board motors or rowing. Like our 17′ MERACO SPEEDSTER it has built-in sponsons.

Safe, Fast, Strong and Beautiful

Weight, 90 lbs. Length, 12′. Width, 42″.

Write for full particulars, Dept. C.

ST. LOUIS-MERAMEC CANOE CO.
VALLEY PARK, MISSOURI

Distributed by
Von Lengerke & Detmold Inc., New York

Take Your Boat Along!

The thrill, the delight, the supreme satisfaction of having your boat or canoe with you whenever and wherever you want it—that's what you get when you own an

Acme Folding Boat or Canoe

Take it with you on your fishing or vacation trip, or even on an outing of a day or two. Fold it up and put it in your auto or in the baggage car. Or tuck it under your arm and carry it. Light, strong, and safe. No other boat like it. Thousands in use. Don't go another season without one. Get all the facts. Write today for free catalog.

The Acme Folding Boat Company
42 Boat Street, Miamisburg, Ohio

Cora Johnstone Best

(Continued from page 65)

poisonous snakes in this country, and all snakes are valuable; they eat mice, grasshoppers and other crop-destroying vermin, and do no one any harm. A toad is worth fifty dollars to any state. The flies, larvæ, grubs, grasshoppers, and other insects eaten by one toad in one year would do much more than fifty dollars' damage to gardens and crops. Let us keep a pet snake or two and a family of toads in our gardens. No, not in the house,—the house is for human beings.

I have heard people who belong to the ancient order of cat worshippers advance the argument, "Man hunts and kills things; my cat has the same right." If one thinks the human has no more "rights" than the carnivora, why not turn a few lions, bears, and hyenas loose amongst us? They would do no more damage in the long run than the cat is doing now.

I said above that the cat had nothing to prey upon it: I had *not* forgotten the dog. Speaking of dogs,—I have often wondered why the anathema "low down dog" has not taken the form of "low down cat." The dog has progressed out of his ancient low levels of habit and instinct and has come to a nobility of quality and character that the cat in no degree approaches. And yet when a dog gets the name of "cat killer" he sooner or later pays the penalty with his life. Would that the I. W. L. might show the same sense and judgment as the "cat killer" dog. There is no danger that the League would pay the penalty with its life; and many a child would grow to healthy manhood unmaimed by the filthy and crippling diseases that the carefully nurtured cat is now carrying into our homes.

The big intelligent group that makes up the League can no longer plead ignorance of these facts, and has not the right to plead sentimentalism as a justification to cat protection.

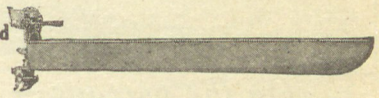
Let us have more of the PLUS; let us look not only to the conservation of all good things so that our children may enjoy sports, beauty, clean and unpolluted streams, and better living conditions,—let us conserve the children themselves; let us make a "refuge" for our babies where they may be allowed a chance to grow without this *extra* and *unnecessary* handicap,—the disease and parasite-carrying cat.

Let us also educate our adults so that they may learn the *true* meaning of conservation,—conservation in ALL of its manifold meanings. Above all, let us make them understand that the *better* MAN, himself, is the most important thing we have to conserve. The best way to conserve in all things is not to wear out, waste and destroy. Pick up your paper tomorrow morning and you will read of the death of some prominent man, or woman,—someone we can ill afford to lose; some one of untold value in helping to solve the

Thompson BEATS the World on BOATS — Fastest Of All Boats for Outboard Motors

And a complete line of other boats at real money-saving prices. Prompt shipment from either of our two factories to you.

Outboard Hydro-Plane



Fastest of all boats for Outboard Motors. Has an official record of over 16 miles an hour, and an unofficial record of over 17 miles an hour. **Price, $98**

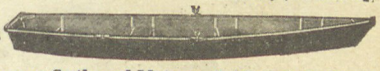
Speed Model

Winner of the Gold Cup race at Detroit. Averaged over 15 miles an hour on one lap and broke the world's record for boats powered with 4 H. P. Motor.
Price, $78.00 and up

Canoes

Light, swift, safe, strong and durable. A complete line, including non-sinkable Sponson Canoes. Choice of many rich and distinctive color combinations.
Prices, $48 and up

Flat Bottom Boats



—For row or Outboard Motors. Sold ready built or knockdown. Easily cleaned and practical for all purposes. **Prices, $29 and up**

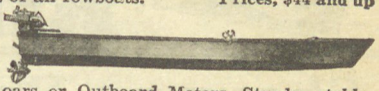
Square Stern Row-boats

—Made both smooth sides and lap strake construction. Steady, seaworthy and easy to row.
Prices, $50 and up

Double Ender Row-boats

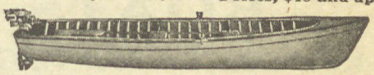
—Commonly called St. Lawrence River Skiffs. Fastest of all rowboats. **Prices, $44 and up**

Special Fish Boats



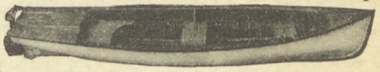
—For oars or Outboard Motors. Sturdy, stable, won't roll when you stand to cast. Light draft for the shallows. Easy to row. **Prices, $48 and up**

Out-board Motor Boats



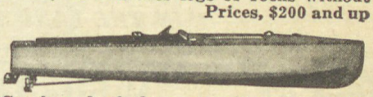
—Lake Model—River Model and Sea Model. Each designed specially for Lake, River and Ocean use.
Prices, $74.00 and up

Beach Model



—With inboard motor installed. For lakes, rivers, shallow water and weeds. Propeller does not project below keel. May be run over logs or rocks without injury.
Prices, $200 and up

V-Bottom Motor Boats



—Greyhound of the water. Roomy, steady, and seaworthy. Very fast. **Prices, $500 and up**

2 Big Factories

fully equipped and run the year 'round on a production basis, enable us to offer the best that skill and experience can produce at real money-saving prices. Prompt shipment from factory nearest to you.

Catalog Free—Save Money—Order by Mail (16)

State kind of boat in which you are interested.

THOMPSON BROS. BOAT MFG. CO.

407 Ellis Ave. PESHTIGO, WIS. (*Write to Either Place*) **127 Elm Street CORTLAND, N. Y.**

Patronize the Advertisers who patronize our Magazine.

On the portage—
you'll glory in its lightness

You won't have to worry about the long carry if you are traveling by "Old Town Canoe." For "Old Towns" are not only rugged, strong and steady, but—they are amazingly light in weight.

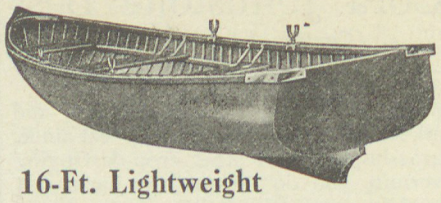
Truly, here is the ideal canoe for every fishing or camping trip.

"Old Town Canoes" are low in price too. $64 up. From dealer or factory.

The 1926 catalog is beautifully illustrated with all models in full colors. It gives prices and complete information. Write for your free copy today. OLD TOWN CANOE COMPANY, 634 Main Street, Old Town, Maine.

"Old Town Canoes"

Built of the Best!



16-Ft. Lightweight
Outboard Motor Boat

This boat is built of the best white oak and northern cedar. White oak decks and stern corners cast aluminum—will not twist, warp, split or rot. Impossible for planking to pull away. Weighs less than 200 pounds.

It's the fisherman's ideal boat. Steady and seaworthy, with wide, flat floor to stand on while casting. Rows easily. Exceptionally speedy.

All Dunphy Boats are ready for immediate shipment—launches, outboard motor boats, special 14-foot smooth-planked rowboats for resorts, canoes and rowboats. It will pay you to get the new Dunphy catalog. It's a book every boatman will prize. Write now.

Dunphy Boat Mfg. Co.
Dept. D4 Eau Claire, Wis.

DUNPHY
"famous for boats for forty years!"

Look for the registered name "King" inside the boat.

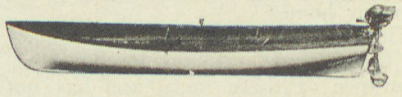
Ask Your Dealer About the New "King"

With your "King," you can fish the waters where boats are not to be had—carry it anywhere, folded, on auto, train or pack horse. The new improved King Boat is a beauty. Strictly hand made. Outlasts any other boat. Easy to handle. See your dealer or write us for folder.

KING BOAT CO., Dept. G
960 60th Street North Chicago,
Oakland, Calif. Illinois
(Formerly Kalamazoo, Mich.)

KING BOATS

Shawano-Built BOATS



ROW BOATS — HUNTING BOATS — LAUNCHES — CANOES

If you are going to buy a boat, let us help you. We are skilled in the making of boats, having had years of experience in that line. Low priced and good quality and seaworthy. A complete line of high grade boats for all purposes. *Write us for details.*

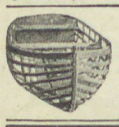
SHAWANO BOAT MFG. CO., SHAWANO, WIS.
"IN THE LAND OF WOODS AND WATERS"

Nine/Tenths of the famous MAINE guides —folks who Know values— use **WHITE Canoes**

White Outboard Boats and Canoes

The last word in construction and safety. Graceful, light, speedy, roomy. Built to stand the gaff. Outstanding values! Ideal for camps, individuals, youths or adults. *Write for free catalog, mailed on request.*

E. M. WHITE & CO., Old Town, Maine



An Outboard Motor Boat for Your Auto

Is carried on running board. Weight 55 lbs. Pack everything inside. Mud and rain tight. Copper fastened frame. 24 oz. puncture-proof canvas. Can't wear on bottom. No leaks or repairs. Safe family, hunting and fishing boat. Several sizes. Our 35 years' experience backs it. Descriptive Circular.

KALAMAZOO CANVAS BOAT CO., 433 Harrison St., Kalamazoo, Michigan

The SPORTSMEN'S SHOW, April 8, 9 and 10, Hotel Sherman, Chicago,
Will be of great interest to all sportsmen and lovers of the outdoors.

problems we are facing in this country today. What caused this death? Heart failure? Pneumonia? NO! A thousand times NO! Back of the apparent cause was an overdraft on the bank of health! There is no system of treatment and no medicine in the world that will permit anyone to overwork with impunity. We MUST make our men and women who are in the greatest productive period of their lives understand that they must get out and "play"; out where they get some of the strength and vision and beauty,—above all, some of the PEACE found only in the sunshine, out there under the "tent of all the world."

Let us women look at the Izaak Walton League in the big light of the PLUS,—then we shall all be eager to put our shoulders to the wheel and push onward around another corner into another and a brighter light and a greater civilization.

Pollution

(Continued from page 32)

and they must be "shown." In the language of modern publicity we must "sell" them a clean river. Here is where the IZAAK WALTON LEAGUE comes in. Here is a man's sized job, for the average man in the street has not even heard of a sewage disposal plant. The formulation of public opinion in this matter is, as we conceive it, the major work of our Twin City chapters for some time to come—this, and, of course, the expansion of our membership. We shall endeavor to do this work as best we can, but we want the sympathy and the cooperation of the national organization which, we feel certain, we shall always have.

In our endeavor to formulate a right public sentiment we are counting on the sense of fairness and the civic pride of the Twin Cities. In all their history, in all the exigencies of a long and rapid growth, they have met every changing condition with courage, with resolution, and with a sense of honor and fair play, and we have an abiding faith that they will ever continue to do so. The present situation has not yet become acute from the standpoint of the public health (for the contaminated water forms no part of the water supply), although it is fast approaching it from the standpoint of nuisance. On the score of public health they are and always have been exceedingly sensitive, and because of this fact have the lowest death rate in the nation. They will be, we are confident, equally sensitive on the score of river pollution, when fully informed on the subject. Their sense of fairness and decency will impel them to see to it that the river leaves them as pure as it comes to them. This is doing unto others as we would have them do to us. It is the Golden Rule of the River.

Our Advertisers help us, let us help them.

Applesauce—A National Dish

(Continued from page 17)

acter of the coming generation. We feel that recreation in the open is preferable to recreation in pool halls and dance halls. Briefly, we are out to annihilate the parlor snake, thus disturbing our old friend, John Balance of Nature, and making him tip the scales in favor of a more healthy citizenry.

To do this we must work harmoniously with one thought in mind: An increased knowledge of what is needed and a practical, sane plan to arouse an apathetic public to the value of a vitally important factor in this country—an out of doors we can all enjoy and be proud of.

Stewart Edward White, whose fame as a sportsman and writer needs no comment from me, said it all in one brief sentence: "Doggone your ornery hide! If you fail to come through, don't call what you see in that mirror of yours a well-finished sportsman. It isn't. It's merely a possibly well-meaning individual who does not know enough to welcome a chance to prove himself what he thinks he is."

We must know where we are going, why we are going, how we intend to get to our destination and what we want when we get there. Practical conservation, not rhetorical conversation, will win (and I didn't steal that line from Bob Davis, either). We can bask in the sunshine, pass resolutions and appoint committees until hell is covered with two feet of ice, but until we see the truth in that remark of Stewart Edward White's and put the committees and resolutions to work by personal cooperation, America's out of doors will continue to be the recipient of the razzberry and future generations will be left holding the bag.

It Can Be Done

(Continued from page 27)

Lansing commenced laying out his campaign. He is a quiet chap. Nothing much was heard about pollution, and the skeptics again resumed their cry, "It can't be done." Then one cold January day Director Baird out of Lansing issued a call for all of the cities in the St. Joseph river watershed to send representatives to Lansing for a meeting with the Director of Conservation and the Attorney General. The cities complied. They were first told the law, and next the condition of the St. Joseph river, once a beautiful, clear-water bass stream. Health was endangered by conditions, they were told, and too the immense summer resort business of Michigan was harmed. The law was plain. The determination of the state was clear. The evidence of pollution was beyond contradiction. Unanimously these cities promised to

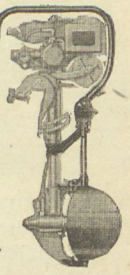
(Continued on page 77)

Here's Your Master Pilot!

The McNAB RUDDER for outboard motors is a marine engineering sensation! Just a touch of the hand gives you supreme boat control. Come to a dead stop, engine running right ahead. Then, without altering motor speed, send your boat ahead, or reverse, at any degree of speed—from zero to maximum. Pivot her on her axis without swinging propeller off center. Do all these things and more, with your motor running ahead all the time.

The McNAB MANEUVERING RUDDER brings a new thrill, new pleasures and utility to outboard motors. To sportsmen and vacationists it means a new era of motor boating—greater flexibility, more delicate speed control, etc.

McNab Maneuvering Rudder

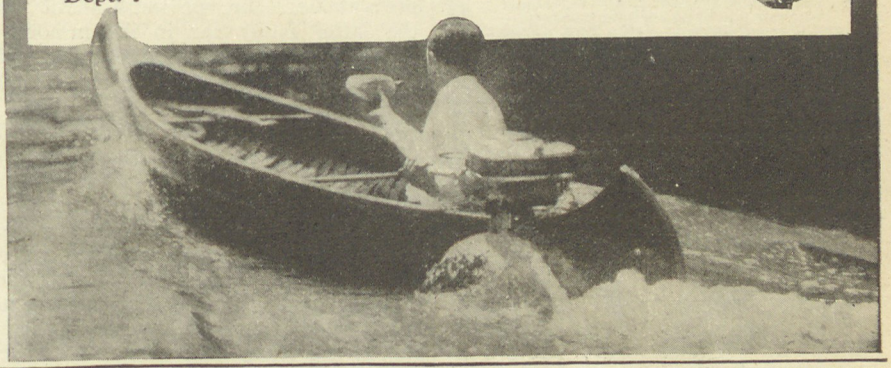


Write at once for full particulars, prices, etc. The McNAB RUDDER is sold through Sporting Goods Dealers everywhere. If your nearest dealer can't supply you, we will ship direct. (Dealers: write for free literature.)

Easy to Attach. The McNAB RUDDER is easily attached to any standard outboard motor. Easy-to-follow directions with each rudder.

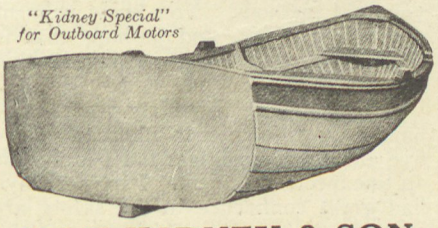
McNAB CORPORATION

Dept. 4 Yonkers, N.Y.



DAN KIDNEY ROW BOATS, LAUNCHES, HUNTING BOATS

"Kidney Special" for Outboard Motors



Built into every Kidney boat is the experience gained by 45 years of fine boat-building. Expert workmen—highest quality materials — careful construction and accurate knowledge unite to give you a thoroughly quality-built product. The Kidney plant is the best equipped in the country.

The Kidney catalog of boats shows a variety of styles and sizes. Send 6c in stamps.

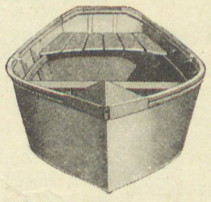
DAN KIDNEY & SON

West De Pere Wisconsin

Chicago — Von Lengerke & Antoine, 33 South Wabash Avenue

THERE IS ONLY ONE PIONEER

The PIONEER will support three men when the boat is entirely filled with water.



The PIONEER is Not *a Steel Boat. It is built of rust-resisting copper-bearing pure iron.*

Get a PIONEER and your boating troubles will be over.

Our Boat factory is now the largest factory in the world manufacturing metal row boats exclusively.

Get our catalogue. In case your dealer cannot supply you, order direct from the factory.

PIONEER MANUFACTURING COMPANY, Dept. E, Middlebury, Indiana

Kennebec Torpedo—fastest canoe afloat

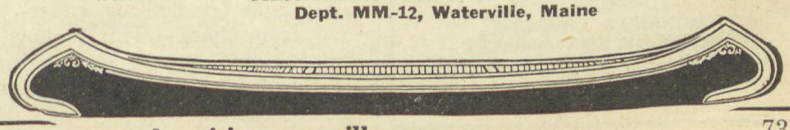
KENNEBEC CANOE CATALOG 20 pages

A sport model for the experienced canoeman. Its lines lower the center of gravity for speed. The shape of the ends, with narrow beam, gives it a very classy look. Handsome striping. Best materials throughout.

WRITE FOR CATALOG, which shows 17 Models.

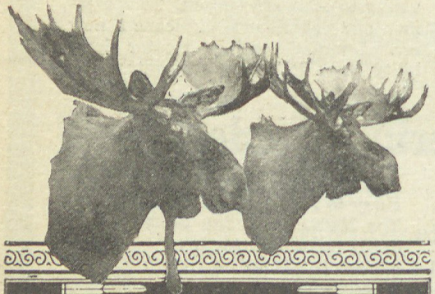
WRITE! **KENNEBEC BOAT & CANOE CO.** *POPULAR!*

Dept. MM-12, Waterville, Maine



The more results our advertising brings, the more advertising we will carry.

Announcing
An Unusual Display
of
Wild Life Mountings



At the Sportsman's Show
Chicago—April 8-9-10

A rare display of unusual mountings—embodying both life and action — reproduced with rare fidelity and natural expression—will be exhibited by Jonas Bros. at the Sportsman's Show, Hotel Sherman, Chicago, April 8-9-10.
Sportsmen will gain from this exhibit a new conception of art in taxidermy—also an opportunity to select trophy masterpieces for decorating the home, den, office or mountain cabin. Sporting goods dealers can obtain displays that create business and make money as our sales agents. One of the Jonas Brothers will be in attendance.

Write for catalog—FREE

JONAS BROS.
1026 BROADWAY Denver Colorado

SUPREMACY
AT THE
TRAPS

THAT'S every trapshooter's aim, so last year a model was designed to help make that ambition a reality.

The L. C. SMITH
VENTILATED RIB GUN
equipped with the
HUNTER ONE-TRIGGER
is the ideal shot gun

With the plane of vision raised well above the arc of the barrels, a maximum of visibility is provided.

Before you buy *any* gun, for trap, field or marsh, examine this one at your dealer's, or write for Catalog D48.

HUNTER ARMS COMPANY
FULTON NEW YORK

McDONALD & LINFORTH
Pacific Coast Representatives
Call Building San Francisco, Calif.
Export Office: 50 Church Street, New York City

Field Guns

Edited by OZARK RIPLEY

Dangerous Guns

THE old adage that a gun or rifle is dangerous at all times is amply verified by the number of accidents which take place annually. We know that most of them are through carelessness, but every once in a while little things arise which bring serious trouble, and the worst thing about them is they can neither be anticipated and therefore are, to a great measure, unpreventable. But we must admit that the latter is by far in the minority; nevertheless, it is just irrefutable evidence that no one can be too careful with firearms.

This thing of accidents comes at all ages. If you just start up a little opportunity for something to happen untowardly, it will happen, be sure of that. There are times when the worst comes the very minute you drop a precaution you have exercised all your life. You are never too old to be bitten, no matter how long you have been shooting at the traps or hunting with rifles and shotguns. If you establish a rule for safety, adhere to it, despite every temptation which may come to alter your old methods. You know a burnt child dreads fire, and perhaps that is the reason why I am writing in this vein.

After shooting for thirty years—perhaps it would be best to admit to thirty-five and then some, last fall I met with an unexpected accident. I have always had great confidence in the safety arrangements on guns, which prevent the hammers of hammerless guns from falling, for they are most always cocked, and this little thing in most every make of gun only prevents triggers from being pulled. I have never seen a hammer yet jarred off by a gun falling, though, mind you, other fellows have. I have seen once in a while the left hammer fall from being jarred off by the recoil of the fired right barrel. All this never happened to me, but it happened when I was around and I perpetually guarded against it.

I am sort of rambling from one paragraph I wanted to put over and that was especially pertinent to an accident which happened to me. I most wanted every one to absorb the fact of never, even for the sake of friendship, changing the rules of your lifetime. You know they have insured safety and let nothing cause you to vary from them. This is how I get personal, and have a chance for self-deriding because I let friends influence me, and thereby hangs the tale of parting with a finger on my right hand, and a lot of necessary meat on my left.

One rule I have always followed was never to carry a loaded firearm in any sort of vehicle. I have been insistent about it, obdurate; perhaps, lots of times, caused other hunters a great deal of annoyance because I would not ride with any of them who carried a loaded gun. Even jump shooting ducks from a canoe or boat I would always leave the matter of shooting to the man in the bow and not once be moved into letting anyone else have a loaded gun at the same time, for fear that he too might want to shoot and during his excitement blow the topknot off the man in the bow. I saw one fellow lose his head through such a misfortune, and another accident came through one of these overcareful chaps who vowed he would only shoot ducks that flew to his side and nothing could make him vary from this. I will admit that he did not harm the other fellow, who was myself, but somehow or other just after he had declared that a man who exercised caution could not have an accident. Well, he hurt no one physically, but he did my feelings very much, when somehow or other both barrels of his gun went off and blew a hole in the side of the boat several inches below the waterline. That half mile swim, or partly, wade to shore on a cold November day is not easily erasable.

This incident, however, while surely personal and reminiscent of quite a bit of cold water had nothing to do with the parting of a piece of my anatomy, as occurred last fall in a large seigniory in Quebec. Finally, I am getting down to the facts about my side-stepping my rule of never permitting myself to ride in any sort of vehicle on which there was a loaded gun or rifle. We were way out of reach of most men up an old log road, fourteen miles from the railway. The grouse shooting was wonderful. Those hospitable hunters had seats built on both sides of a railway speeder for hunters to sit on. Grouse were so abundant there was no need of a dog, and all the shooting was performed while you rode on this seat and the moving speeder flushed the birds that were feeding along the right-of-way.

I lost all former sense of caution at the prospects of such good shooting and the certainty of nothing untoward happening, as each man adhered rigidly to the rule of never shooting toward any side of the car except that upon which he was. I had just shot a ruffed

When writing to Advertisers give credit to our Magazine.

grouse and retrieved it. Then I sat down and pulled my coat over my face to keep the driving sleet from it, and at the same time saw that my gun was on safe. All at once the driver of the speeder gave it all its juice to get over a slight elevation. The jar threw the gun out of my hand and the butt dropped between the platform and the floor, the muzzle pointing straight at the driver's back. He could not hear me call for him to stop. So I reached down quickly to move the gun from any risk to him, at the same time starting to take hold of it near the breech. That only made the gun go farther between the wheel and the floor, and almost instantly the gun fired and took off my right index finger, but fortunately the muzzle had been moved far enough by me no longer to endanger the driver's life.

Now, many things can happen in a life time. But I never saw so many functionings take place to fire off a shot gun and thence remove the finger of a man who ought never have had a loaded firearm on such a car or any other sort of vehicle. All of this happened within two seconds. The telling requires a little longer time. That safety remained on safe and this is the way the left barrel of that gun came to fire. The carwheel broke the trigger guard and both triggers, then the stock, the safety stud and the lock plate far enough that a piece of the walnut from the broken stock thrust up and put off the left hammer. Strange as it may seem, sufficient wood forced its way into the right lock to jam the hammer and prevent it firing. All of this strange occurrence should absolve any man from the accusation of being careless, but it will not absolve him from varying the rule of a lifetime and carrying a loaded firearm on a vehicle.

Everybody slips sometimes from his best planned intentions. Years ago this was brought to mind vividly because the man who met with an accident was the very fellow who seemingly guarded against it most. His rule was never under any circumstances to carry a loaded gun into camp or permit anyone else to do it. When the bunch went deer hunting up in the mountains he posted a sign on the cook tent to that effect, and to be sure everyone carried out the order he went to the trouble personally of examining every rifle which was stacked in the rack at camp, provided for them.

Year after year this was the safety first programme upon which the woodsman insisted, yet finally he was the victim of an accident the first time he slipped. He had examined all guns so he thought. One night at camp the hounds got into a fight and upset the gun rack. A rifle was discharged, and a bullet went through the ankle of the man who had made and enforced the rules to prevent just such accident. At once he charged every one with the offense of bringing a loaded rifle into camp which had escaped his inspection. This brought about the examining of all the rifles. Everyone was empty of cartridges fired or unfired except his own, and it contained in the breech one empty shell with the hammer resting on it. Fancy how the disciple of safety felt after that!

Most of us have our memories go back to some incident which effected their sensible use of modern nitro powder. All the ammunition concerns keep at a great expense ballistic stations for experimental purposes as well as testing thoroughly every product they manufacture. They continually tell the public what are safe loads for shotguns, rifles and revolvers. Yet often individuals among the public for no sane reason suddenly decide that they know more about powders than all the manufacturers put together, and the reason manufacturers load as they go, or advise to load, is simply to get hunters using as little powder as possible and thereby make additional profits from the sale of loaded shells.

Not long ago a hunter of some experience was seized with the desire to load his own shotgun shells. He had received ample advice on the subject of dense powder and the dangers of overloading it. As proof of his assertion, despite the fact that every known method is taken to guard the public against measuring it as bulk powder, and directions were right before his eyes, he had a plan in mind whereby he was going to increase the killing distance on ducks of the gun he used for that purpose by loading his own shells. It was the old story so often repeated. He used bulk powder measure for the dense, and now needs a new gun and is getting along the best way he can minus the services of his right hand.

People who have no experience in manufacturing are the worst offenders against the safety rules continually drummed into their ears by ballistic experts. They apparently have no fear of gunpowder in any form. They do not conceive that danger exists in any way to them, though they have often heard of fearful results from fools treading where angels were afraid to follow, or doing things which experts simply would not even attempt under any circumstances.

I knew a duck hunter whose knowledge of shooting was far better than his knowledge of explosives. His mania was distances. He felt that the more powder you could cram in a shell so much the better. He was sold on the idea of the modern progressive burning shotgun powders. He had tried them with good results, but despite their killing power he believed that he could go the manufacturers one better. They had not yet attained perfection such as he thought they ought, and right away an idea held sway with him. Friends tried to dissuade him. But what is the use of trying to dissuade a man who thinks he knows it all? You have to let him do as he pleases, because whether you wish it or no he is bound eventually to hang himself with his own rope.

Now, this duck hunter learned that the super, or modern progressive burning powders, were ordinary bulk

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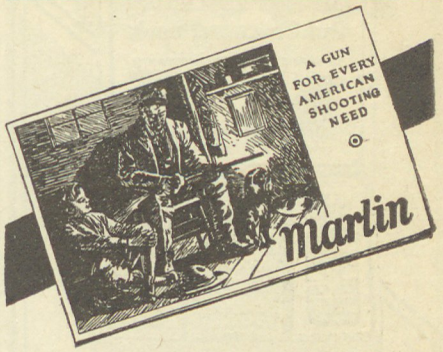

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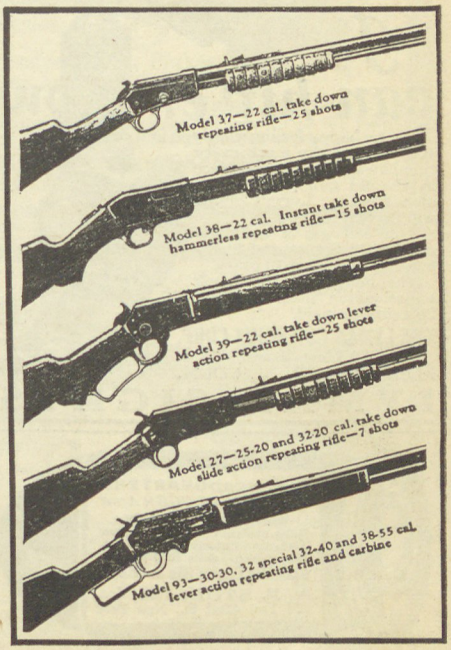
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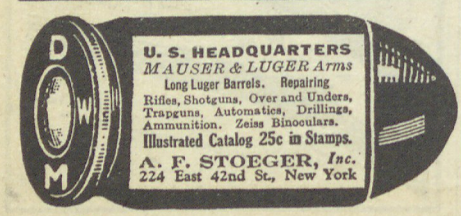

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smokeless powders coated in a way which made them burn like the old black powders. It did not go off with such a quick flash, and necessarily the outcome was less constriction of the shot at the choked part of the gun, and the shot did not string so much as formerly. He thought quite a while over this, and what he knew about smokeless powders. He could still get greater range than any powder maker had ever believed possible. Killing ducks at a hundred yards would be easy for every hunter, according to the way he reasoned, and, unfortunately, proceeded.

What a great thing it would be if such a load had increased speed and hitting power! He had the solution in mind, and it only remained for an almost immediate occasion to try it out. He unloaded one of the progressive long range duck loads, and to give it that craved-for longer range while loading the shell again he added alternate thin layers of dense powder—just sufficient so that the old case could accommodate the contents as it did before. Only a miracle saved his left hand. Fortunately, he held his hand close down on the fore-end toward the muzzle. The load ripped a hole in the barrel and only took off a part of his thumb. Strange as it may seem, he is not quite contented with the results of his experiment and attributes all of his misfortune to not thinking about reducing some of the progressive burning powder to make room for the dense, instead of cramming it all together.

His accident reminds me most of my own in one way because for years he could never be made to load shells and declared it was a dangerous practice. Then that slippery germ of suddenly altering all his own safety plans took hold. Here's the moral of all this rambling sententiousness and narrative: never change your rules for guarding against accidents, no matter how old you are.

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It Can Be Done

(Continued from page 73)

take measures within six months looking toward establishment of sewage disposal plants.

Next the cities along the Kalamazoo river were summoned; and similar promises readily were made. A week later Grand Rapids and other communities in the basin of the Grand, longest river in Michigan, and one of the dirtiest, appeared. Grand Rapids, under Supreme Court order issued following a protest based on health menace, already was building a sewage disposal plant. Grand Haven, although never ordered to do so, reported that, heeding the spirit of the times, it had engaged engineers to survey its sewage problem. Mayor Fred Green of Ionia said he could read the hand-writing on the wall, and his resolution promising action within six months was unanimously adopted by the cities represented.

The Saginaw river was a hard nut to crack. Into this stream the cities of Saginaw and Bay City were dumping their sewage, and to it were added the poisonous wastes of industry. But just at the right time pollution itself provided a telling exhibit. Excessive poisoning of the Saginaw's waters late in January killed thousands of fish. In great heaps they lay along the river bank near its outlet. Commercial fishermen, seeing their catches of perch and pike endangered, raised their voices in protest. They had pleaded for help before, but never had help come. This time, however, the stage was set for their exhibit, and the Saginaw river also is in for cleanup, according to promises made to the Conservation department at its official hearing. The Muskegon river and others are assured purification by action of cities which border their banks.

Of course, promises alone are not going to clean up Michigan's streams. But Director Baird and his department stand ready to enforce the carrying out of these promises. Within six months he expects every city responsible for major pollution to have in tangible form some plan for sewage disposal.

With the cities' pledges safely on file, Baird now is proceeding against the industries responsible for pollution—the paper mills, sugar factories, chemical plants, etc. Following the advice of Theodore Roosevelt, he is speaking softly, but he carries a big stick.

Of course, it won't all be done this year. It takes time to build sewage disposal plants and to reconstruct the sewer systems of cities, but already there are evidences of action. The public throughout the state is back of the Walton league and the Conservation department.

Incidentally, while all of this was going on, the little village of New Boston, not far from Detroit, had waged a lonesome campaign against the powerful Detroit Reduction Com-

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pany, which has the garbage disposal concession of the city of Detroit. For years this company has conveyed daily tons of garbage to French Landing on the Huron river. New Boston, near at hand, has lived with its fingers tightly clenched over its nose. The stench became so much of a nuisance that residents sold out and left. Property values dropped.

New Boston protested to Detroit, but got no sympathy. Detroit is a big, growing city with vast problems of its own. Then some foresighted individual in New Boston noted the fight being made against pollution in the state by the Izaak Walton League, and saw in it a gleam of hope for his home community. A New Boston chapter of the league was formed. In a friendly plea for sympathy it put its case up to the Detroit chapter of the Walton league and to President Henry Schuil of the Michigan division. Things began to happen. Sentiment in Detroit commenced to change. New Boston, with its Walton league chapter providing the energy, carried its fight into court, and won! Under Circuit Court edict the Detroit Reduction Company is cleaning up. It must stop dumping rotting waste into the Huron river. It must cease to operate a nuisance.

And so, as we were saying, the Michigan Walton league slogan is, "It can be done." In fact, it is being done. Even the skeptics have been convinced.

The Tragedy of Twin-Rock Pool

(Continued from page 21)

barb didn't catch and the fly pulled flatwise through the fish's lips. The fish however held on gamely to his prey until he was drawn to the top of the water and we got a good look at him as he let go. He was a monster. Big as your thigh, at least. Doc's face like a careful gambler's gave no record of his emotions. He retrieved the line and cast repeatedly over leviathan's lurking place. Other parts of the pool were tried without success. Opportunity had knocked and passed on. The fish was not to be tempted again. Some further trials were made and finally Doc drew cautiously out of the pool. There was no discussion. None was possible. We looked each other in the eye understandingly and journeyed up stream. Doc fished the backsets, the deep bends and all the cunning retreats of the upper river and returned with the usual full basket, but his mind was not content. He could not forget that dark and sullen pool, and the valiant warrior that guarded it. Still Winthrop had certain Indian qualities and patience was one of them. The Twin-Rock Pool could wait.

"When we reached Jake's shack we found a new arrival. Two, in fact, for a man had come in with his son for a week's end fishing. He announced that two or three days would be as much time as he could spare from the bake shop of which he was the proud proprietor, and indeed, that such was about the right time to enable him to take back his customary thirty or forty pounds of trout. At this startling statement we others looked at one another steadfastly for a moment and then exchanged the pickle eye.

"The son was apparently thirteen years old and large for his age. He was fat and thicklipped while his protruding eyeballs and generally adenoid aspect proclaimed a limited intelligence. I asked the boy if he cared to fish. Not that I cared a whoop but just to make talk. He stared at me sullenly for a minute as he struggled to gather the meaning of the words and replied, "Nah, I'd ruther stay home. I c'd catch flies at home." I looked around in surprise for no one ever stayed at Jake's place without a vivid realization of the fourth plague of Pharaoh. The ceilings and furniture were almost spongy with the innumerable millions of flies that actively aided Jake with the mosquitoes to bleed white the summer visitors. I wondered casually about the man's bakery and prepared to call attention to the infinity of entertainment which our environment could offer when the boy's father interjected that he had not intended to bring the boy along but the absence of his mother made it necessary.

"We looked at the boy and understood. At thirteen he had reached mental maturity. He could not be left anywhere with safety to himself or the neighborhood.

"The evening meal passed pleasantly as such functions do and we all settled down for a pipe or so as we discussed the river and the trout. As soon as politeness would permit, Doc and I went to our beds and left Jake entertaining the new guests with tales of old times on the river when a man could go out of a morning and bring back a dozen fish weighing thirty pounds or more. Jake had found a congenial intelligence in the boy and made the most of his opportunity. Nevertheless, his tales, although marvelous to hear were in reality almost true. I had to admit that.

"At breakfast we learned rather gratefully that the recent arrivals had already eaten and left for the river. Jake reported that the man had so many flies on his hat that one could barely discover the color of the goods. He further reported that the boy had gone off with a cane pole nearly twelve feet long over his shoulder.

"This statement made a distinctly unpleasant impression and Winthrop inquired sarcastically if they had carried any sardines for bait. Jake was serious and said the boy had taken one of the smaller fish that we had brought in the night before.

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"Well, we started off and in due time came to the pool where with more disgust than surprise we discovered the boy. As we hove in sight the brat seemed to think that some activity was expected of him. I wish you could have seen that spectacle.

"To the end of his long cane pole the boy had tied a piece of braided linen trolling line. To this he had added a sinker as large as your finger while on the end was a hook like a wire nail. With this horrible outfit he was flailing the waters and using for bait an eight inch trout which Winthrop had injured in taking from the hook. Two or three times the hook, line, sinker and bait struck tree limbs back of the boy, but the weight was so immense that the whole mess swayed off the end of the branch without entanglement or delay.

"The boy hurled the bulky mass here and there, and right and left by turns, and every time the bait hit the water it made a splash like the swoop of a fish hawk. Fly fishing was out of the question, of course. Doc's face revealed plainly the fly caster's disgust for bait fishermen in general, and of this one, in particular. A hand to his stomach suggested the direct effect of the scene before him while a finger to his forehead called attention to the quotient of intelligence in front of us. With this summary, righteous and comprehensive, we moved on up stream.

"No comment was necessary on conditions so obvious, but whenever I looked at Doc his lips were moving as if in prayer, but the gleam in his eye suggested murder rather than a tame acquiescence in the uncertain decrees of fat. None of this interfered with his rodwork, however, and we turned back with a full creel. As we passed the Twin-rock Pool Doc allowed a bit of his repressed feeling to escape.

"My God," said he, "what could the great Creator of Heaven and Earth be thinking of to allow such a thing as that boy to visit a wilderness where there are no carnivora?"

I had been prepared all day for some kind of an outburst but Doc's control astonished me, and I replied somewhat equivocally, "I am sure Father Walton would be loath to have him as a scholar."

"We had almost reached the shack when we encountered the man and his bug-eyed brat. The boy was sitting on the bank throwing stones into the river. His father was digging. As we came near, the man straightened up.

"Any luck?"

"Oh, yes, some."

"A lot, I should say," rejoined the man as he hefted the basket with an impudent hand. "I've given up flies and tomorrow I'll use bait if I can find some worms. My boy got a good one today with bait."

"Is that so?" inquired Winthrop with an alert but carefully concealed interest. "He was fishing in a very unlikely place when we passed this morning."

"That's where you're off," replied the man. "As soon as I seen that big

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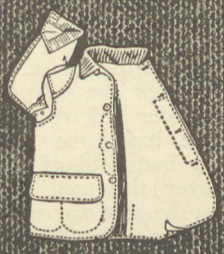

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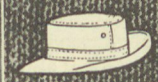

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pool I knew it for the best spot on the river for trout. I made the boy stop there and try it. After a few casts I left him. I thought he'd learn a lot more alone though he casts pretty good for his age. He told me later, he got tired and just threw out his bait and let it take care of itself, while he took a nap. Put a stone on the pole for safety, and it's good he done it for he was roused by a grating noise. He looked around and saw the pole dragging out into the water. Before he c'd grab it though it had gone out of reach. Something had hold of it and led it around over the pool like a horse. Sometimes the pole was straight up and down, sometimes it worked like a pump handle, and again it floated flat on the surface. The boy was wise, though, and just as he suspected it turned out to be a fish. A big one. After a while the fish got tired of the pool and started down stream. Luckily he was well hooked, and the boy followed the pole. Saw it catch on rocks, hang up in backsets and drag across shallows and around turns until in those gravelly shallows just opposite Jake's place the pole stuck between two stones and the boy waded in and grabbed it. The fish was still on and the boy pulled him ashore without a net. It was a fine fish. I think there must be larger ones up there and tomorrow I'm going up to try some worms on them. At this season you'll find the big ones won't take flies. I'd be glad to have you come up and watch me if you'd care to."

"They seem to take my flies fairly well," responded Doc in an effort to be polite. There was a dangerous glint in his eyes and I began to fear trouble but his control was excellent and he took the next one standing.

"Oh, yes, of course, but not the big ones such as real fishermen like to take home." There was an insulting emphasis on the real, but the exaggeration was so palpable that Doc almost laughed.

"No, I suppose not," he replied ironically, and fearing to ask another question lest he explode, Doc started on. Irritable, agitated and disgusted, he tried to argue against what instinctively he felt to be true, namely, that the half-witted boy had captured the chief prize of the Kagawanna, and also the one particular fish, which he, himself, had been stalking for over a week.

In this state of mind he approached the shack and came upon Jake skinning a huge speckled trout for a birch bark trophy. For one brief unholy instant Doc appraised that trout with his eyes, then inquired quietly,

"The boy caught it, Jake?"

"But yes, M'sieu, le boy catch heem."

"How much did it weigh, Jake?"

"Heem seven poun' heavy, M'sieu. Heem ver' beeg feesh."

The blow was overwhelming, but after a single deadly moment Doc recovered. He drew a long breath, and then his sternly shackled emotions broke loose. Courteously but ex-

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haustively he cursed the hills round about collectively and individually. He cursed the forest and the trees. He cursed the lake, the river and the rocks beside the river in the name of all the Angels and Archangels, the Seraphim and Cherubim, and the Holy Mother of God. He cursed the denizens of the air, and all the living things that dwelt upon, above or under the Earth, and those that inhabited the waters thereof with especial fervor. He cursed them by the Beard of the Prophet, by the Eyebrows of Buddha, and by the Concepts of Confucius. He invoked the aid of Dagon, the Fish God, in so blighting the waters that neither tadpole, fish nor mermaid, nor anything having fin, tail or gill could live therein. He cursed this particular brook trout. He cursed him in the egg and in development, in spawning and in eating, in swimming and in resting, and in all his daily habits, together with each and every one of his kindred from the Age of Fishes down to our day. He cursed the skin of the trout and prayed that it might bring disaster, pestilence and death upon whomsoever should harbor it as a trophy. His rhetoric glowed and gleamed against a dark background of prophecy as he continued his tirade without check or hindrance. The images came quickly at command like soldiers, and the descriptive words thronged in greedily like camp followers to a feast.

"In the full tide of scathing arraignment Doc happened to look around and his glance fell upon the vacant and wholly unmoved countenance of the boy who had just come in. For the first time there was a pause in the flood of malediction, but only for an instant while the direction was changed, and the buckets of wrath could be turned upside down over that miserable lignum vitae head. Doc now invoked the aid of barbarian deities. He called down Zoroastrian fire and the withering winds of the Voodoo to pursue the boy, and scourge him in all his generations past, present and to come. He cursed him at home and abroad, in his goings out and his comings in, and throughout all his occupations, but especially he laid a peculiarly elaborate, comprehensive and blighting anathema upon his future fishing.

"The half-breed had raised a defensive hand and shrunk back in bewilderment and dismay, while I looked around apprehensively in expectation of seeing Elijah's she bears descend from the mountains to devour the boy. Nothing happened, however, and when at last the imprecations ceased for a second while the operator drew breath, the empty eyed one seized his chance to break in with,

"Pa got a whole lot a worms."

"It was an anticlimax. Doc gasped once or twice like a dying fish, lifted both hands helplessly to the powers he had invoked and rushed off to the somber shadows of the forest wherein a wise old owl was raising his voice in bitter denunciation and menace of an unperturbed mole."

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Edited by V. C. EBEL

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Scientific Dog Breeding

By LEON F. WHITNEY

NOBODY knows how many thousand years ago it was that mankind first domesticated the dog, but since that time the dog has probably been his most common and one of his most useful domesticated animals. But in all that time, during which man has been trying to originate new breeds, and been trying to make dogs more and more useful to him, he has never taken the trouble to study out the real science of dog breeding. Today, there are more nonsensical ideas connected with the breeding of dogs than with the breeding of any other animal or plant.

If a doctor began to tell about birthmarks in children he would be laughed to scorn today in well informed circles, but the foolish idea still persists among dog breeders that a sire of litter can hand his influence along to the next litter. If a man undertook to explain how it is possible to have girls or boys at will, he would be branded as an ignoramus but most every dog fancier will tell you that there is a certain time during the heat of a bitch, when if the bitch is mated, she will produce all dogs or all bitch pups. Dog breeding is on the most insecure foundation of that of all the animals. We know about our swine, cattle, horses and even vegetables. A good breeder can tell you just what will happen when certain breeds are mated. No dog fancier can tell you such things.

Twenty-five years ago the world awoke to learn that heredity was almost a matter of arithmetic. Since then, it has become a more complicated science due to recent discoveries. But even now, it is not beyond the comprehension of any reasonably intelligent person. To Gregor Mendel belongs the credit for the great discovery that when two plants or animals which differ in any particular are mated together the offspring will be like one or the other in that particular. Mendel mated dwarf peas with tall peas and found that the first generation were all tall. We called the tall dominant because the character dominated the shortness. He called the shortness recessive because it receded from sight. Since that we have learned that every trait about the body has a pair of units in the germ cells which govern it, and as we know that it helps to predict the results of our matings.

In their laboratories the scientists have experimented with mice, rats, guinea pigs, rabbits, etc. Obviously the first thing that is necessary is to find out what all the different units about an animal are, and to learn which are dominant and which recessive. The scientists have divided guinea pigs up into these units and they know which are dominant and which recessive. They know that if they mate a black and a white, that the young will be black if both parents are pure bred. They know that if they mate a rough coated with a smooth coated, that the young will be rough, etc. Each trait is represented by a symbol and there are hundreds of traits.

Now it is surprising to me that someone years ago did not discover these things about dogs. Men have mongrel dogs and have known the ancestry. They have tried to guess the ancestry of mongrels—everyone of us has done that. Five years ago I determined to learn the dominant and recessive traits in dogs. I have mated many breeds together and usually have drowned most of the pups. I have been making observations on different units in the same breed, such as color, etc. This work has led me into the acquaintance with other and more interesting things about dogs which have a human application, such as a study of the exact time the eggs are discharged from the ovaries, so that we may know when is the best time to mate our bitches.

All of this material I shall bring out in a book, which will put dog breeding for the first time on a scientific basis. The work is slow and very expensive, but I believe that within a year the book will be ready.

Just what is the value, you ask, of these experiments?

Well, for instance, with the present knowledge, I can make almost any kind of a looking breed of dogs that I want to, and do it in a minimum of time.

I can predict what almost any mating will produce. So will any fancier be able to with the information.

It will be possible to determine the proper father of certain pups in a litter. For instance, a man mates a bull terrier to another bull terrier. Shortly afterwards, the bitch was mated by mistake to a Manchester terrier. There were three white pups and three brindle and white. The man drowned all the pups. Had he drowned only the brindle he could have had three pure bred bull terrier pups which would not have been in the least affected by their close association with the others. I mated a registered pointer to four different breeds. I could tell which the father of each pup was, with absolute accuracy.

It is possible now to determine the purity of breeding of many dogs which are registered but should not be.

And so on.

As an example of Mendelism in dogs, let us take the little experiment

of mating a French Bull Bitch to a St. Bernard dog. Look at the pictures carefully. Look at the offspring. Remember that the traits of the parents which come out in the cross are the dominant traits. Notice also that the pup does not get all the dominant from one parent. The dominant traits are: Long straight tail, lop ears, sable color, short hair, medium long nose. The recessive are: screw tail, erect ears, brindle color, long hair, pug nose. There are two units for each trait. The St. Bernard has two for lop ears; the bull, two for erect ears; the mongrel has one for erect and one for lop, and because the lop are dominant the ears hang down.

But see all the applications there are of this. There are six possible combinations of erect with droop or lop ears, and they work out according to arithmetic. Take one, for instance. Suppose that two of our mongrel pups mate, considering the ears alone, we will have what we call E erect ears and L lop ears:

And out of 100 pups from such a combination you bet and be reasonably certain of winning, that 25 would be pure for Lop ears, 50 would be like the parents, and 25 would be pure for erect ears. Or figure it any way you wish, for instance, breeding the pup back to the mother and you get just what you expect. And there we have Mendel law applied to dogs. It takes a little study to understand it, but it is now being taught to high school students using mice and guinea pigs as examples, so surely it is not beyond the comprehension of us adults.

In the laboratory, the scientist (Geneticist) makes his experiments and then checks them by breeding many more of the same. But the scientist can keep 100 mice for the cost of keeping one dog and can have half a dozen litters, more or less, while I am getting one from a bitch. This breeding is very expensive work and more especially when many of the pups are worthless and must be drowned.

I should like, therefore, to take this opportunity of requesting every dog breeder who has had pups born to a bitch which were mongrels but from known parentage, and both parents pure bred dogs, to write to me and tell me about it. In this way I will be able to check up my work in a short time and give to the world of dogdom a more accurate knowledge to the end that we shall be able to do away with all superstition and outgrown ideas and be able to do our breeding in a thoroughly scientific manner.

In return for your assistance, I shall be more than happy to put any information at your service to assist you with your breeding problems. The breeds do not have to be distinct. I am interested in knowing what happens when different kinds of setters are crossed, different kinds of hounds, different colored pointers, etc., and the more description you can furnish me the better. Just address it to me at 185 Church Street, New Haven, Conn.

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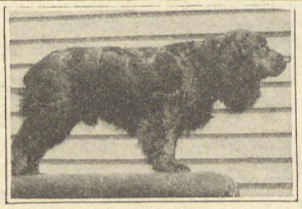

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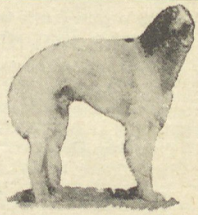

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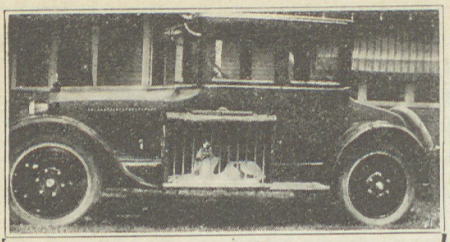

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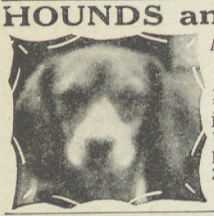
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King Meets King

(Continued from page 26)

able smell around our tent. The little camp dog was accused of having dragged something between the tent fly. Careful search revealed only a few ants. Later, in desperation, the tent was cleared out and the floor cloth removed, and we found several thriving ant nest, the source of the obnoxious odor.

One night in a boma, watching for lions, Mr. Maxwell seemed very uneasy and finally, at the risk of warning the lions of our presence, we were impelled to find out what the trouble was. Reluctantly he confessed that there seemed to be something in his hair. The flash-light revealed that his suspicions were more than justified. His hair was swarming with ants! The ants had discovered the lunch basket, which was tied directly over his head. In their greedy haste they had crowded one another off into space and they had dropped onto Mr. Maxwell's head. He said he had not thought of ants, but had been obsessed with the idea that some overlooked patch of fly eggs had hatched and the maggots were crawling in his hair!

A certain variety of ants build houses which are the most characteristic feature of an East African landscape. They start to build up the trunk of a small tree, covering runways with red earth mixed into a cement. This is added to and enlarged until the root area of the tree is covered and the tree dies. This, then, is the completed ant castle, six or eight feet high, roughly conical in shape and pierced with numerous circular openings. When they are abandoned grass grows over them, and a plain, thickly dotted with these grassy cones, presents a puzzling appearance to an inexperienced observer.

There is also an edible ant, but it would take a braver person than I am to sample them. These creatures are about an inch long, equipped with wings and are attracted to a light at night. These are probably females full of eggs. During the season when they are flying the natives put a lamp or lantern on the ground and sit around it. As each insect arrives it is picked up by the wings and eaten, "au natural." Some white people also consider them good fried in oil, but for my part that portion of the menu can well be omitted.

Lions and leopards seem to have a fly of their own, yellow in color and resembling a small bee.

The Tze-Tze fly, which produces sleeping sickness, is not found in the section in which we hunted.

These few adventures are, of course, only a part of the many we experienced during the time we were in Africa, but this will give you a general idea of the country, its customs, peculiarities and laws and a few of the thrills we had.

Chips of the Night

(Continued from page 29)

supper, Lou leaned back in his chair and talked of the monster coon.

"I ran the upper traps this morning and as I went over the Hogs-Back, I saw the biggest coon track I ever saw. There was enough snow so I could track him pretty well. I finally lost the trail and then I circled and picked it up again near the Goose Pond. Then I tracked him to the big elm tree. He is sure a big one. He could give Old Blue a tussle."

"It's getting late," Fess warned anxiously. "I'm afraid he'll start to run before we get out there."

"No, he won't," Lou replied with pride. "I took off one pair of my overalls and my sweater and tied them around the trunk of the tree. He won't dast go over them."

"That will not keep a coon up a tree," Doc insisted.

However, he was outvoted by Lou and Fess. They both declared that the scent of a man's clothing would keep a coon up a tree.

Whenever Fess was around, it was Lou's habit to talk of the advantage of education. He had read much, and was fairly well informed. During supper, he enumerated the advantages of an educated man over one who had but little learning. This evening he emphasized the ease with which an educated man could earn a living.

Supper finished, the hunters collected axes and saw, spot-light and lantern, and Big Lou led the shivering, whining hounds. Poor Lou had not chosen as wisely as he had thought. The hounds had been inactive all winter and they were anxious to feel the thrill of the chase. With noses on the ground to catch the least suspicious scent, they pulled and they tugged—sidewise, backward, and forward, but mostly backward. Many times they had Lou's legs securely wrapped in chains. He gladly would have exchanged burdens with Doc or Fess, but they, anxious to secure the prize, had far outstripped the Master of the Hounds.

When they arrived at the gnarled, formidable elm tree, they found Lou's overalls and sweater proclaiming to the unfortunate coon, "Thou shalt not pass."

Doc took the spot-light and carefully searched the tree for the gleaming eyes of the coon. Around and around he went, doing an Indian war dance, throwing the light high and throwing it low. Fess "shimmied" behind him, looking over Doc's shoulder for the tell-tale flash of the coon's eyes.

From out of the darkness, Lou called, "Can you locate him?"

"No," was the disappointed reply of the searchers.

Lou quickly urged them on in a

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cheerful voice, in spite of the work-out the hounds had given him, "It's hollow, he's in a hole, we'll have to chop it." Lou sat on an old stump and held the hounds while Doc and Fess began.

At first the task seemed light and it was carried on with many a cheerful jest. But as the saw cut its way deeper and deeper into the green, wet tree, it began to "gum." Furthermore, it did not have sufficient "set" for green wood, which caused it to "bind." The labor became more serious. Neither was used to such work and before the tree was cut half through, their hands were cramped and blistered and their backs ached. When they attempted to stand erect, the aching of their backs was multiplied. Lou said he had rheumatism in his stiff leg and could help but little. "Rests" became more and more frequent. Yet the heroic toilers toiled on. More and more frequently they compared the cut with the uncut part to determine what fraction was yet to be cut. Occasionally they tried chopping on the opposite side, but the work was exceedingly crude. Neither toiler could make the ax strike where he wanted it to strike. As a result, the small "fluffy" chips fell gently on the brown leaves. Doc leaned on the handle of the ax and viewed the jagged, irregular cut on the tree and the small, fluffy chips which covered the ground like flakes of snow. Fess picked one up and sadly murmured, "It looks as if a rat had gnawed it off."

The hounds knew the purpose of the workers, and shivered and whined, and occasionally howled at the long delay. Lou cheered the toilers on, "It won't be long, boys. It will soon be through." (At his distance, he could not have been a good judge.)

The tree was "cussed" and the saw was "cussed"; and hands and backs were "cussed." Doc yanked, and Fess yanked, and each blamed the other for not knowing how to pull a saw.

Finally a warning "crack" was heard and the eager hounds jumped expectantly to their feet. "It's cracking, boys. It's all over now," shouted Lou.

The giant tree swayed back and forth, and the cracking became more frequent. Finally it swayed and balanced, then settled back. "Hold the dogs," Fess warned Lou.

"Chop some more on the other side," was Lou's response.

Then the giant yielded with a thun-

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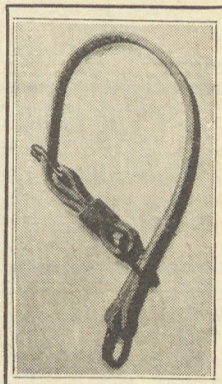

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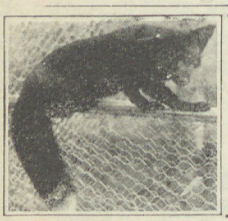

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dering crash to earth. The sound echoed through the valley and over the bluff. The hounds pulled, and yelped, and howled.

"Let 'em loose; let 'em loose," yelled Fess.

The loosened hounds plunged madly through the branches, sniffing and whining in their anxiety to pick up the trail which they knew must be there. Rattler ran the trunk of the tree, and Blue began to circle wider.

"Blue will pick it up soon," Doc predicted confidently.

Both hounds began to circle, but each time they returned to the tree.

"He must be in the tree yet," Doc volunteered, as the hounds again approached the tree.

Then men and dogs made a close scrutiny of the tree. It was not hollow, as Lou had said, but there was a hole at the base of a large branch. It was not large enough to admit a squirrel, to say nothing of a coon with a foot the size of Lou's hand. Yet Doc insisted on poking it thoroughly with a stick.

"What do you suppose is the matter with those hounds?" Fess said mournfully. "On a hot trail like that they should have run him down in two minutes."

"It beats me," Doc replied. "The ground is damp and they should have picked the trail up without difficulty."

Then Lou volunteered some valuable information, "He must have got the motion of the tree as it fell and jumped way to the Goose Pond. No hound can track a coon on smooth ice. Let's circle the Pond; they'll pick up the trail on the other side."

But no trail was discovered. When all effort failed, various theories proposed and debated. It was treason to blame those well-nigh perfect hounds. Yet the evidence was against them. When they returned to the cabin and ate a lunch, many a morsel was thrown to the hounds that had failed for the first time.

Lou seemed willing to discontinue coon talk and brought the conversation around to the value of an education, "I wish I had a good education like you fellows and I wouldn't have to work so blamed hard."

"It's damn little you did to-night," Doc tartly replied.

The next afternoon Doc and Fess met Ray Smith, who owned the wood in which the big elm tree had stood.

"I've got a good job for the rest of the week," Ray volunteered. "I've got to help Big Lou work up that big elm tree by the Goose Pond. I paid him five dollars for cutting it down and he 'phoned me this morning that he cut it down yesterday."

Doc looked at Fess; and Fess looked at Doc.

Finally Doc said, "Weren't we damn fools not to look for those tracks before we began?" Then his face brightened and he continued, "Well, anyway, the hounds are still 100% perfect."

"Yes," replied Fess reminiscently, "and so is Lou's education."

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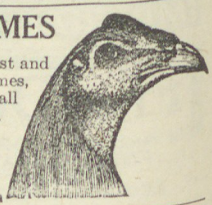

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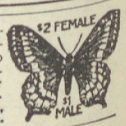

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The Way of the Tree People

(Continued from page 23)

Cypress grow within this belt of greatest moisture, and there only.

Over the rest of the area the rainfall is fairly even and not excessive, yet plentiful enough to moisten the soil.

Right there we find the hardwood trees with deep roots (the west coast conifers have very shallow roots) going down into the fine, pulverized soil (going down after water, by the way) which is the product of erosin up in the mountains at the river heads, and holds water like a sponge when we get below the surface.

The low eastern mountain chains running parallel to the coast from South Georgia to New York and New England are so low in altitude that they are only partial condensers, therefore they exert only partial influence on rainfall, instead of causing heavy precipitation as the high Western ranges do, and further, the Eastern Mountains do not oppose, at right angles, the track of the North bound gulf storms but nearly parallel them which tends to lessen their influence.

Yet they do cause more condensation than occurs either to Westward or to Eastward of their summits so we find the shallow rooted, water loving conifers again in evidence along these ranges because there is more water there than on the flat country and further because the soil is new and raw for these mountains like all others are undergoing the slow process of disintegration by sun, wind and water erosion; in other words they are slowly rotting and washing away just as all mountains and hills do, and in doing so they expose the raw ribs of the world in the solid rocks they are formed of, rocks that grind to powder and flow away down stream to make such soil mixtures as the Mississippi river delta, soils so rich that only certain trees can thrive in it, but which will support lesser plants in rank profusion, given heat and water to help.

In passing let me call your attention to the fact that all the conifers grow in what a farmer would call poor soil and that this soil is usually very shallow, new, raw and primary and is derived from mountain-eroded, or glacier-ground, rock that oftentimes is mixed with volcanic ash. The roots of the conifers, therefore, spread out to cover a wide foundation but do not go very deep so they must depend on water that runs off almost on the surface, and in almost all cases does not percolate to a greater average depth than four feet. Conifers use great quantities of water so derived, but their root mass is never very thick, so they do not prevent erosion to any great extent nor do they furnish a root-web to hold water by cohesion, therefore all streams running through or out of a coniferous forest are subject to great fluctuations as to volume and are usually clear water that runs bank full, or "high," in rainy season, or after hard rains, and after snow begins to melt in the spring. These

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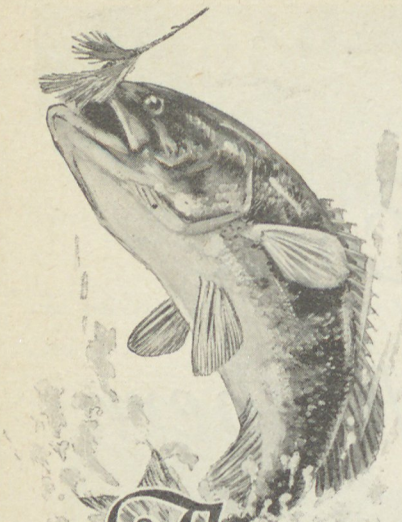

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are facts, not theories, and they do away with the "prevention of flood by growing trees" theories, because every river coming from or through a coniferous forest entirely from source to mouth is a river notorious for the violence of its floods as well as the sudden rise or fall of such flood.

On the other hand, the hardwoods, and trees other than conifers, have to have soil made up of many elements ground together by erosion and mixed by flowing water and deposited in deep, loose masses that hold water like a sponge.

Down into this soil mass the trees (other than conifers) send their roots very deeply, searching for the underlying waters that the soil contains and in these facts we find one plausible cause for the species-segregation of forest growth; in other words these are reasons in part that explain why conifers grow in the wet areas of poor soil while the other trees stick to the low and less rainy country, though the same original moisture supply makes life possible for all the species.

All the storm tracks of the continent join together over, or eastward of, the Great Lakes and pass out through the St. Lawrence trough into the North Atlantic.

This produces considerable rainfall all over the country to the South of the main storm track because of the frequency of storms passing over it, be they well defined or only of small intensity.

As all these storms approach the Atlantic coast via the St. Lawrence Valley, they again come in contact with the cooling surface of the North Atlantic with its cold Arctic current flowing Southward.

Again the storm, feeling this cooling influence, condenses its moisture over Maine and the land on Eastward for a considerable distance North and South of the center and we find the heavy "pine woods of Maine" and New Brunswick growing just under this area of condensation precisely as the conifers grew further Westward under the same conditions. You see it all works out according to fixed laws of nature, regardless of man or his ideas, theories or wishes.

We know "Why is a tree?" now, and we should know that if we intend to take over nature's job of forestation we will have to work along lines that nature lays down. We must plant the right kind of trees in the right places. We must keep the fires out. We must harvest the ripe trees without injury to the seedling. We must plant sixty trees (or more would be better) for every one we cut, and we must plant them where the one we cut grew. We must do away with a lot of fool theories and get down to fact and a working business basis. We must not try to grow a merchantable forest where no forest ever grew before unless we can provide an unfailing artificial water supply for all time. We must practice real genuine conservation by doing away with waste and using to full capacity the full-grown ripe tree before

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it falls and rots in the forest at the end of its natural life span.

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If we do all these things intelligently, there will be plenty of timber of any and all kinds growing just where timber grows now for all time, unless some cosmic influence changes the earth to such an extent as to destroy existing continental contours and ocean currents.

We are fond of saying that "the climate is changing"; we do it all over the country, yet the records of the weather office show that the climate has the same average value of all kinds that it always has had. There are no very violent fluctuations of temperature or moisture supply over any given area from one year to another, nor are there any definite cycles of hot or cold years; the climate is about as stable as the mountains.

There never has been any violent climatic changes since the ice age, and there never will be so long as the universe is as stable as it is. The tree growths show the climate to have been without changes of any material kind for thousands of years.

So long as these present conditions last, just so long will trees grow where they do now and always have grown in forests set apart by nature to certain species, nor can we change the underlying causes, as I've explained them above, any more than some fanatic can go down in Arizona and produce rain by shooting bombs up into the air—an attempt to do the impossible, because Arizona happens to be just like Australia, for over it is an atmospheric "dead sea" which no storm track crosses, therefore no unusual or excessive moisture can come from the dry air over its deserts—which are deserts because they are under this dead sea of air, and for no other cause.

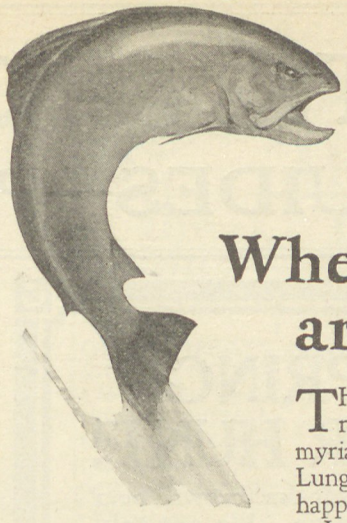
In the next article I will tell you a lot of things about snow and its relation to forests and to the general welfare of humanity.

All of these things are governed by fixed, undeviating laws, and it is well for us to know and heed them if we are to thrive, for the snow that falls in Glacier Park, Montana, has a lot to do with making cotton in Mississippi as well as with making trees in the Rockies and wheat out on the Montana plains.

It is also a mighty big single reason for "Why is a tree?"

My next following article will deal with snow and the big storm and the work they both do for the tree people.

I shall tell you of the mighty winter gales that roar among the bald rock spires and peaks two miles up in the air and how they work to store the moisture that makes it possible for the planter in the lower Mississippi Valley to grow sugar cane with the water from the same snowbank that makes a trout stream on the East side of the Northern Rockies and also, in passing, waters a forest a mile above sea level.



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Dogs

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LET Me Train your bird dog. Paul Otto, Winnfield, Louisiana. (3-4)

POINTER and Setter pups. Approval. John Chapman, Palmyra, Ill. (6-6)

POINTERS, Registered and bred from winners. Ralph Denny, Freetown, Indiana. (3-4)

Police Dogs

FOR Sale—25 light and silver gray Police Pups of Kriminalpolizie blood line. Same as Strongheart. Males, $30.00. Females, $25.00. On approval. Thomas Dailey, Hannaford, No. Dak. (3-5)

POLICE Pups—The kind you will be proud to own. Out of first prize winning male, at $25.00 and up. Will ship on approval. Markesan Silver Fox Farm, Markesan, Wis. (3-5)

POLICE Puppies—Strongheart breeding, ready for shipment. Males $25.00. Females, $15.00. Stanley Jamison, Appleton, Wis. (3-5)

POLICE puppies. By a trained Stud. $25.00 to $35.00. For champion stock, recently imported champion stud, up to $75.00. Any color. Rahmlow Farms Kennels, Appleton, Wis.

FOR Sale—Police pups, grey, silver and white; grown dogs, eligible. Mrs. Wm. McCulloch, Cooperstown, N. Dak.

FOR Sale. Police pups, Grown dogs, Bitches open and bred. Pedigreed. Write. Karnak Kennels, Cooperstown, North Dakota. (3-5)

GERMAN Police pups. Eligible to registration, dark and wolf-gray. $25.00 each. H. Melle, Alexandria, Minn. (3-5)

REGISTERED Police Pups, bitches, bred, open, stud dogs, on approval. Bollhart Kennels, New Ulm, Minn. (3-5)

Dogs

Police Dogs—Continued

WANTED—Police and other puppies. Give age, color, weight and price. P. H. Sprague, Maywood, Illinois. (3-6)

POLICE pups for sale. Blue ribbon winners. Arthur Anson, Mose, N. Dak.

Spaniels

IRISH Water Spaniels—Keen nose, leg length and weight, make this breed the superior of any spaniel now on the market. Fast, powerful swimmers, rapid ground workers. Not a new discovery. "Old Patsey" made good here years ago. Retrieve duck, grouse, chicken, pheasant. Wonderful intelligence, easy trained, easy handled. Largest, finest kennel in America. Genuine curly-coated, rat-tail strain. Eight prize winners imported in three years (a record). Puppies from experienced workers, also youngsters and trained dogs on hand always. Little long in distance, mighty long on quality. Percy K. Swan, Chico, Calif. (3-4)

SPRINGER Spaniel Puppies: Three months old. Best of blood lines in pedigree, such as Laverstrok Powder Horn, Flint of Avendale, Horsford Hetman, Donual, Corselet's Son-of-a-Gun. Sturdy, well-marked, country raised. $40.00 up. 9 months old, Sire Springbok of Ware; Dam Ringlet of Avendale, $100.00 each. Also a few brood matrons. Dr. & Mrs. G. B. Wolfe, R. F. D. 1, Box 184, Indianapolis, Indiana. (3-5)

SPRINGER Spaniels from Real Hunting Dogs. Sire Springbok of Ware. Dam, Roxana of Avandale (a beautiful daughter of Laverstrok Powder Horn). Best bred puppies in America. Price, $50.00, prepaid. Satisfaction guaranteed. Wormed and inoculated. Reference: any bank in Sioux Falls or Bradstreet. Beachgrove Kennels, Harry Beach, Owner, Sioux Falls, S. D. (3-4)

CHAMPION Bred Springer Spaniels. Imported—grown dogs—youngsters. Guaranteed to please. Raised and kept outdoors. Rugged as woodchucks. Priced from $40.00 to $100.00 and worth more. All registered. Bench and field blood combined. Jess Buckingham, Nodema Kennels, Box B, Bellevue, Ohio. (3-4)

ENGLISH Springer Spaniels. Beautifully marked puppies. None better. Correct age for next fall's hunting. Satisfaction and results guaranteed. Prices very reasonable. Write for particulars. Newell E. Ludlum, Lyndonville, N. Y. (3-5)

LARGE upstanding Springer Spaniel Puppies 8 months old. Bloodlines Double Champion Flint of Avendale Double Champion Hetman. Also Beautiful Liver and White Imported Stud. Price $200.00. Malton Kennels, 646 Olive, Kansas City, Mo.

SPRINGER Spaniel pups. From my personal shooting dogs. A combination of Dual Champion Horsford Hetman and Champion Little Brand blood lines. Send for Folder and prices. J. E. Washburn, 276 Buffalo St., Hamburg, N. Y. (4-5)

CHESAPEAKES and Springer puppies and young stock for sale. Best of breeding. Prices reasonable. Satisfaction guaranteed. Harry J. Carney, New Hampton, Iowa. (3-4)

SPRINGERS: Born July 1925. Sire International Champion Laverstoke Powder-Horn. Dam by Champion Springbok of Ware. Liver and white. One solid liver female. B. Linderblood, Boone, Iowa. (3-5)

COCKER Spaniels—Four months old solid black puppies, select breeding, priced reasonably. Dr. W. B. Maxson, Flemington, New Jersey. (3-6)

FOUR registered Irish Water Spaniel Bitches partly trained. At Stud Botna Valley Prince, Fee Fifteen Dollars. Cecil Williams, Atlantic, Iowa. (3-6)

REGISTERED Springer Spaniels. Grown dogs and bitches, puppies, males and females, best blood lines. Write Harry Crook, Mirror, Alberta, Canada.

FOR Sale—English Springer Spaniel pups sired by Ch. Springbok of Ware. Guaranteed. Cerro Gordo Kennels, Mason City, Iowa. (3-5)

LABRADOR Retrievers. If you are satisfied with nothing but the best, use a Labrador. The Dakota Kennels, Box 924, Fargo, N. D. (3-5)

IRISH Water Spaniels for sale. Eligible to registration. John Resheske, Redgranite, Wis. (3-5)

IRISH Water Spaniels, genuine curly coated, topknot, rat-tail strain from trained registered stock. Fred Wachholtz, Murtaugh, Ida. (3-5)

SPRINGER Spaniels, age six months, home raised with breeding hard to equal. C. C. Starker, Newcomerstown, Ohio.

SPRINGER Spaniel Pedigreed pups. Bred from trained, hunting stock. Priced to sell. Peck's Kennels, Lawler, Iowa. (3-6)

Dogs

Spaniels—Continued

SPRINGER Spaniel puppies for sale, $50.00. Pedigreed and guaranteed. W. W. Markwood, Cambridge, Minn. (3-6)

PURE bred Irish Water Spaniel Pups youngsters. Pilger's, Peetz, Colo. (3-5)

Terriers

DARE Devils. (Irish Terriers.) Protection, Playfellow, Pal for Kiddies. Only one man dog, fierce with strangers. Hunter. Noted for Courage and Brains. Litter registered pups for sale, bitch bred to Champion. Red Top Kennels, O. A. Teague, Texas. (4x26)

SIX pound—Bat-eared Toy Fox Terrier at Stud. Fee $15.00. Also toy puppies for sale. Mrs. Verna Schondel, Marshallville, Ohio. (6-9)

BOSTON Terrier puppies, several litters. Brood matrons stud prospects reasonable. Hi-Test Kennels, Excelsior, Minn.

IRISH Terriers, Game and Tough. Raised right. Used to children. A. K. C. Registered. Dr. F. G. Dratz, Missoula, Mont. (3X26)

REGISTERED Boston Terriers at Stud and for sale. All ages. Esely's Kennels, Loudonville, Ohio. (3-5)

WIRE Haired Fox Terriers. M. L. Bright, Ashland, Ohio.

Trainers—Dogs

WANTED bird dogs to train on quail and chicken. Dogs boarded by month. Fred Bidwell, McLean, Tex.

Wanted—Dogs

WANTED. Springer or Bay Cocker Spaniel. Young dog and Bitch five months or older. E. W. Cohota, Valentine, Nebr.

Dog Remedies and Supplies

FOR Worms in Dogs—Use Carbon Tetrachloride Chemically Pure; the most effective remedy against Hook and Round Worms and the safest to use. Also recommended in cases of Running and Barking fits. In capsules assorted sizes for dogs and puppies, 18 doses, $1.00. Harrison Chemical Co., Dept. 15, Quincy, Ill. (1x26)

THE "Acme Thunderer" is the loudest whistle made. It is also easy blowing. For a dog that ranges out far it is the best whistle. Used by most professional field trial handlers. Postpaid prices. Small 60c, medium 75c, large 85c. St. Louis Seed Co., St. Louis, Missouri. (3-5)

RUNNING Fits, Absolutely stopped in 24 hours; has never failed. Treatment for 1 dog, $1.00; 3 dogs, $2.00. Sent postpaid. Mt. Yonah Farm Kennels, Cleveland, Georgia. (3-4)

ELIXIR Capsules, guaranteed cure for running fits and worms. Six treatments, $1.00. Empire Chemical Co., Dept. 7-A, Randleman, N. C.

CARBON Tetrachloride for dogs, puppies. 24 capsules, $1.00. Burwyn Remedies, Waterloo, Iowa. (3-4)

Firearms

RELOAD your revolver and rifle shells, and realize greater sport and economy. Information free. Everything needed. A shooter's handbook for 50c which is refunded on first $5 order. Belding & Mull, Inc., 832 Osceola Rd., Phillipsburg, Pa. (3-5)

LOADING Tools, Moulds, Scales, Measurers for Metallic Cartridges and .410 Shot Shells; also M. J. Bullets, Primers and Cases. Handbook and catalog 10 cents. Modern-Bond Corp., 805 West Fifth St., Wilmington, Delaware. (12x24)

ANTIQUE firearms, swords, daggers, powderhorns, flasks, molds, 1926 Catalogue 4c stamp. Nagy, 8A South 18th, Philadelphia, Pa. (3-6)

GUNSMITHING, restocking, skilled repairing on all domestic and foreign guns. James Macdonald, 21 Cornhill, Boston, Mass. (3-5)

LONG Luger barrels, magazines, stocks. Kniep, 730 East 138 Street, New York City. (3-6)

REMINGTON Mod. 10 T Trap gun used 8 months. Guaranteed factory condition. $80.00. C. W. Wood, Leland, Miss. (3-5)

Fish For Sale

BROOK Trout for sale (Salmo Fontinalis) advanced fry and fingerlings spawned from wild trout, hatched from December 26th, strong and healthy, good shippers, f. o. b. Shelburne. Write for folder. Prices April $5 per thousand, May $6, June $8, July $10, August $12, Sept. $14, Oct. $16, Nov. $18. Walyngton Brook Trout Hatchery, Horning's Mills, Dufferin County, Ontario, Shelburne Station, L. C. A. Strother, Proprietor. (3-5)

The more results our advertising brings, the more advertising we will carry.

Fish and Game Attractions

BRING Ducks to your waters. Plant natural foods—Wild Rice, Wild Celery, etc. We show you how. 29 years successful experience. New illustrated folder and planting advice free. Write Terrell's Aquatic Farm, 39 L. Blk., Oshkosh, Wisconsin. (3-5)

DUCK Shooters—The Pitts Adapter makes the head of any wooden decoy move in natural manner. Easily attached. Sample, 50c. Box six, $2.50. Circular free. Dealers wanted. Tuerk Mfg. Co., 561 W. Washington St., Chicago. (3-6)

BETTER Duck Shooting assured where wild rice, sago pond plant, wild celery, wapato, etc., are planted. Write for literature. Geo. D. Hamilton's Aquatic Farms, Box 35, Detroit, Minnesota.

BEST duck foods known. Wild Celery, Sago Pond Weed, Widgeon grass and others. Write. White's Game Preserve, Waterlily, Currituck Sound, N. C. (5-7)

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FLYRODS. A few beautiful split bamboo flyrods. Actioned and finished by hand. Ten to fifteen dollars each. Satisfaction guaranteed. Hoag Fly & Tackle Co., 5310 Templeton St., Los Angeles, Calif. (3-4)

FISHERMAN—5c brings anybody samples of our guaranteed Silk and Linen fishing lines, Casting and Trolling. Better lines, newer goods and for less money. Silkline Co., Dept. K, Pekin, Ill. (5-6)

FLY Fishermen: New departure Bass flies, six dollars per dozen, or will tie your Ideal from sample or faithful description. Geo. F. Reinhardt, 1908 Washington Ave., Kansas City, Kans. (3-4)

LAKE Fishermen. Do you want to be a big fish getter with hook and line? Just try it over a Pike bed. You won't fish any other way. 75c will bring them. Jay Griggs, Goodell, Iowa. (3-6)

PRESERVED sour clams, "Best Catfish Bait," 2 lbs., postpaid $1.00. Preserved minnows, 2 lbs., postpaid $1.00. Doughbait "Guaranteed for Carp," 2 lbs. postpaid $1.00. J. Curtiss Grigg, Hopkinton, Iowa. (3-5)

WET flys that are trout takers, especially good for early fishing. Made by experienced fisherman. Six proven patterns, $1.00. Home Fly Tiers, 826 Steuben St., Wausau, Wisc. (3-6)

Parker Trout Flies $1.00 Dozen. Guar. 3 foot leaders $1.00 Dozen. 6 foot, $2.00. Tapered, best quality, Heavy, Medium, Thin. W. T. Parker, Jersey Shore, Pa. (3-5)

FISHERMEN: Live Bait for Fresh and salt water fishing, sent parcel post. Send for particulars. American Bait Co., 19 South Third St., Philadelphia, Pa. (3-5)

Food Products

Delicious White Clover Comb Chunk Honey. Five pounds $1.60; Ten pounds $2.85; Extracted Honey, 12-lbs., $3.00. Delivered fifth zone. F. L. Barber's Apiary, Lowville, N. Y. (3-5)

PURE new-season Maple Products, direct from the Sugar Camp—Maple Syrup, Maple Sugar, Maple Candies. Write for prices. E. R. Blackman, Neillsville, Wis. (3-5)

11 lbs. Pure Maple Syrup, $3.75 per gal. Postpaid. Edgar Hunt, Barron, Wis. (3-6)

For Sale or Exchange

SPORTSMEN'S Exchange. We buy, sell and exchange guns, rifles, revolvers, rods and reels, field glasses, cameras, watches, musical instruments and furs. Send the article with a letter, and we will make you our best offer by return mail. E. Wanger & Co., Dep't A., 302 Market St., Philadelphia, Pa. (3x26)

HIGH class airedale, male, big, healthy retriever, on land or water. Hunt any game. Good looker. Wonderful watch dog and demon in water. Rare specimen. Trade for good gun and rifle. Jos. Vitek, 829 Wenig Road, Cedar Rapids, Iowa.

For Smokers

ENJOY a different and better smoke from Scotch Clayschaum pipes. Straight stem, the only pipe fit to smoke. Hundreds prefer them when hunting, fishing and trapping. Porous clay, absorbs nicotine, conserves health, once tried you will use no other. Satisfied customers order quantities. Six dozen $5.00, three dozen, $2.60, one dozen $1.00, half dozen, sixty cents. Postpaid. Scotch Clayschaum Pipe Company, Importers, Dept. K. 2, Laurel, Maryland. (3-5)

KENTUCKY'S Best Leaf Tobacco—Sold on money back guarantee. 3 lbs. chewing $1.00 or 4 lbs. smoking $1.00. Pay for tobacco and postage when received. Co-Operative Tobacco Growers, Hawesville, Ky. (3-4)

For Smokers—Continued

PIPE Smokers—"Luxury" the Supreme smoking Mixture. A cross-cut of Burley, Virginia, Latakia, Perique. Aged, Blended and Flavored for Connoisseurs. Half pound patent tin Humidor $1.25 postpaid. Real pipe joy guaranteed or money refunded. Carney-Graham Company, Paducah, Kentucky. (3-5)

HOMESPUN Chewing and Smoking Tobacco —5 lbs. $1.25; 10 lbs. $2.50; 20 lbs. $4.50. Hickory Ridge Farms, Fulton, Ky. (3-4)

HOMESPUN Tobacco, 5-lb. chewing, $1.80; 5 smoking, $1.00; prepaid. Jim Foy, Dukedom, Tenn. (3-6)

SEND 10c Silver or Stamps for sample package 20 fine cigarettes. Direct-to-smoker. French Tobacco Company, Dept. G., Statesville, North Carolina.

Game Birds and Animals

SALE: Fifty Mated pairs Canadian geese, $30.00. Forty pairs, two year olds, $25.00 pair. Teal, Spriggs, Black Ducks, $15.00. Mallards, $4.50. Little English calls, $8.50. Wild Turkeys, Blue Peafowls, $50.00. Pheasants, Ringnecks, $10.00. Silvers, $20.00. Goldens, $25.00. Eggs in Season. Wild, red, grey foxes, coyotes. Raccoons, Skunks, Breeders. Clinton Game Farm, Fayville, Illinois. (3-4)

WILD Duck Eggs: I have now for sale Wild Mallard eggs; also the pure bred small tame variety of English Grey Call Duck eggs. These are the celebrated W. E. decoys. Nearly every variety of wild duck respond to their soft enticing call. Full instructions with each shipment how to set eggs and raise young successfully. Wallace Evans Game Farm, St. Charles, Ill. (3-6)

PHEASANT Eggs: I have now for sale eggs for hatching of the following varieties: English Ring Neck, Chinese Ring Neck, Golden, Lady Amherst and Silver. All guaranteed to be from strong pure bred non-related birds. Full instructions with each shipment. How to set eggs and raise young successfully. Wallace Evans Game Farm, St. Charles, Ill. (3-6)

FOR Sale—Buffalo wolf pups, tame as kittens. Fifty dollars each, either sex. Reservations made when money is received. Shipped, weaned May 12th. Largest wolves in the world. Affectionate as dogs. Write for literature. Robt. Jones, Mgr. McCleery Wolf Pack, Kane, Pa. (2-4)

ENGLISH Call Duck Eggs, from Prize Winners at Madison Square Garden. Booking orders for fall delivery of Hand Reared Wild ducks, Pheasants and Geese. Write Earl Haswell, Tekamah, Nebr. (3-6)

I CATCH from 45 to 60 foxes in from 4 to 5 weeks' time. Can teach any reader of this magazine how to get them. Write for particulars. W. A. Hadley, Stanstead, Quebec. (6-4)

POULTRY, Pigeons, Canada Geese, Callers, Mallards, Peafowls, Fancy, Stocking Pheasants and games, Hunting, Toy, Police Strongheart blood, Milk Goats. Pauly's Pheasantry, Kahoka, Missouri. (3-6)

CHINCHILLAS: Most valuable fur and meat rabbit raised. Increase rapidly. Only high quality stock. Ranger Fur Farms, Excelsior, Minn. (3-6)

FIFTEEN Carneaux pigeons, $15.00. Twenty homer pigeons, $20.00. Mallards, one drake, five ducks, $13.50. B. F. Gerred, Union Grove, Wis.

PHEASANTS: Golden Pheasants and Japanese Silkies. Eggs for spring delivery. Full instructions how to hatch and raise. W. A. Herr, Plymouth, Wis. (3-5)

PURE Bred Decoy Ducks, Hatching Eggs; black mallard $2.50, mallard $2.00 per setting. Otto A. Zavatone, Centre St., Quincy, Mass.

SWISS Milk Goats. Pure Bred Saanens and Toggenbergs. High producing registered grade does. Both kinds. Earl Funk, LaFayette, Ind. (3-4)

THOROUGHBRED Koller and Yorkshire Canaries. Fine healthy singers and breeding pairs. Satisfaction guaranteed. Frank Caduff, 317 16th Ave., Newark, N. J.

WILD Rabbits—Cottontails and Jacks for any purpose. Place orders now for fall delivery. Priced right. Earl Johnson, Rago, Kansas. (3-6)

PEAFOWL, Pheasants, Bantams, Pigeons, Wild geese, Ducks, Breeding stock, Eggs. Free Circular, John Hass, Bettendorf, Iowa. (4-6)

PHEASANTS, Amherst and Golden. Japanese Silkie Bantams. Order eggs now. S. M. Snyder, Metamora, Ill. (3-5)

BLUE foxes for foundation stock with a real guarantee. Very reasonable. Hardy Trefzger, Yakutat, Alaska. (3-5)

FOR Sale. Genuine English Callers and hatching eggs. Wm. Kroeger, Bennington, Nebr. (3-5)

Game Birds and Animals—Cont'd

EGGS from pure bred small English gray call ducks. $4.00 for 15. Delivered. Chas. Coates, Meadville, Mo.

FOR Sale—Choice, Bred Female skunks, for spring delivery. Tom Rosensteel, Gettysburg, Pa. (3-4)

GENUINE small English caller hatching eggs, $3.50 for 15—$10.00 for 45. Prepaid. Arthur Jchnson, Manson, Iowa. (3-6)

MUSKRATS—Quality breeders—Dark Northern Minnesota muskrats. Minnesota Fur Farms, Crosby, Minnesota.

PHEASANT and Wild Duck Eggs for spring delivery. Stamp for price list. Jaser's Pheasantry, Walhalla, Mich. (3-6)

RABBITS for sale—Pedigreed stock. $2.00 up. Illustrated book 10c. Maikranz Rabbitry, New Bethlehem, Pa. (3-6)

FANCY Pigeons, Angora Kittens. Minnetonka Kennels, Minneapolis, Minn. (3-6)

HIGHEST Quality Small English Callers. $5 setting prepaid. O. Robey, Maryville, Mo. (3-6)

Help Wanted

MEN, 18 up, wanting U. S. Mail Service positions, $142 to $225 monthly; Steady; experience or correspondence course unnecessary. Write A. Bradford, 112 N. 50th St., Philadelphia, Pa. (3-6)

DETECTIVES earn big money. Excellent opportunity. Travel. Experience unnecessary. Write, George Wagner, former Government Detective, 1968 Broadway, N. Y. (3-6)

MEN wanting forest ranger, railway mail clerk and other govt. positions. Write for particulars. Mokane, B-37, Denver, Colo. (6-6)

Indian Goods

BOW, Arrows, $1.50. Beaded Watch Fobs, $1.00. War Clubs, Belts, Necklaces, $3.75. Dozen Arrowheads, $2.00. Moccasins, $4.00. Beaded Hatbands, Headbands, $2.75. Modern Indian Curios, Stone Age Relics, Navajo Blankets. Birch Bark Canoe and Price lists 25c. Chief Flying Cloud, Dept. O., Harbor Springs, Michigan. (11x25)

SWEET Grass Baskets, Bark Canoes, Bows, Arrows. Made by Northern Michigan Indians. Samples, $1.00 each. B. D. Owens, Alanson, Mich. (3-4)

Miscellaneous

BARGAINS:—Double barrel hammer and hammerless shotguns; rifles, 22 cal. to 45-90; Evinrude motor, used; camp cook stoves; new and used Eastman Kodaks; Stanley unbreakable vacuum bottles; Firearms list 10c. Frayseth's Hardware, Milan, Minn. (3-5)

MINERAL Treasure under foot—Learn to find it. Cash it. Information 10c. Minerals identified $1.00. Mineral specimens. Buskett, Assayer, Joplin, Missouri. (3-5)

SORE Feet, Ingrowing nails, chilblains, bunions, etc., cured at home. No knife—no pain. Interesting information free. Eaton's Foot Specialties, A15, Bandon, Oregon. (3-4)

WATERWEEDS removed easily and effectively from any lake, pond or river. Write for particulars. Aschert Bros., 309 East 36th Street, Los Angeles, Calif. (4x26)

HIGH Blood pressure inexpensively overcome, without drugs. Send address. Dr. L. Stokes, Mohawk, Florida. (3-4)

HUNTING Hounds. Cheap. Dog Supplies. Guns Bought, Sold, Exchanged. Kaskennels, Herrick, Ills. (3-6)

LOVERS of nature. Trees, Shrubs, Plants, Iowa Grown, Direct to you. Let us quote prices. A. E. Bents & Son, since 1877, Cresco, Iowa.

PLEASANT Root inexpensively overcomes any tobacco habit. Send address. Paul Stokes, Mohawk, Florida. (3-5)

TYPEWRITERS—$20 up. Easy payments, free trial. Payne Company, Rosedale, Kan. (9-5)

GINSENG Seed. Nice Hardy seed. 1,000 seeds, $2.00. C. Collins, Viola, Iowa. (3-6)

Musical Instruments

FINE hand made violins. Expert repair work. 50 years experience. W. C. Blanchard, Hopkinton, Iowa. (3-5)

Outing Equipment

SLIGHTLY used tents for sale. All styles all sizes. Write for descriptive list. The Hettrick Mfg. Co., Toledo, Ohio. (3-5)

SALE—9 ½ x9 ½ Dickey Bird Tent with side curtain. Fine condition. $35.00. H. A. Nerison, Westby, Wis.

SLIGHTLY used camp cots for sale—regular folding army style, good as new. The Hettrick Mfg. Co., Toledo, O. (3-6)

CAMP Sleeping Robes. Write for Folder 9. Hildreth Mfg. Co., Lincoln, Nebr. (3-5)

Patents

PATENTS. Booklet free. Highest references. Best results. Send drawing or model for search. Watson E. Coleman, Registered Patent Lawyer, Opposite Patent Office, Washington, D. C. (4x26)

Photography—Cameras

MODERN Photography in all its branches now taught by mail. New, successful method Write for particulars and unusual offer, open for short time. International Studios, Inc., Dept. 7172, 3601 Michigan Ave., Chicago, Illinois. (12-1)

OIL Painting from your favorite snapshot, 16x20 in suitable frame. Price $50.00, prepaid. Roger David, Artist, Merchants Bank Bldg., Saint Paul, Minnesota.

UNEXCELLED Gloss Prints. Trial offer. Your Kodak Film Developed and Printed, only 10c. F. R. B. Photographers, 1503 Lincoln Ave., Cincinnati, Ohio. Dept. "K." (3-5)

BEAUTIFUL Oil paintings from your snapshots. Particulars, W. Taylor, 64 West Sixth Ave., Vancouver, Canada. (7-7)

Poultry

PLANS for Poultry Houses. All styles, 150 illustrations; secret of getting winter eggs, and copy of "The Full Egg Basket." Send 25 cents. Inland Poultry Journal, Dept. 105, Indianapolis, Ind. (5-4)

Printing and Stationery

EMBOSS your Stationery with Hand Embosser. Circular Free. Midwest, Box 47, Springfield, [illegible]. (3-6)

100 LETTER [illegible] heads and 100 envelopes, bond paper, $1.00 postpaid. Atoka Press, Atoka, Okla. (3-5)

WE print stationery, booklets, catalogs, circulars. Samples. Fancier's Press, Box 1, Batavia, Ohio. (3-5)

Real Estate

SEIZED and sold for taxes. 3 acres lake front, $40.50; 10 acres on Lake Huron, $80.10; 80 acres big game country, $189.00; 20 acres fur farm, $45.00; 160 acres farm Western Canada, $315.00. These prices are not first payments or price per acre, but the total amount asked. Also beautifully situated hunting and fishing camps for moose, deer, caribou, ducks, partridge, trout, whitefish, bass, etc.; best in North America. Summer cottage sites, farms, heavily wooded tracts, acreages large and small for pleasure and investment, all offered at ten cents on the dollar of their value, and on easy monthly payments of $5 and upwards. Send for illustrated list describing the above and hundreds of other properties seized and sold for taxes. Every property is fully described and offered at a stated price. Send no money. Send for list today so you will have first choice. Tax Sale Service, Room 607, 72 Queen Street West, Toronto, 2, Ontario, Canada.

A FINE large water front lot for your private camp or cabin, and an undivided interest in nearly 4,000 acres of nature's playground in Northern Wisconsin, with its finest of trout streams and pretty lakes, its game sanctuary and trout hatchery, its care-takers' farm and its miles and miles of saddle trails and scenic beauties, growing year by year into a valuable timber tract. Conveniently located. And yours for $1,000. Lovers of the Rod and Gun will find sport galore. Big gamey trout as well as deer, bear, fox, partridge, grouse, etc. Plenty of space for golf, tennis, riding and all outdoor sports. Plan a cabin for the whole family where they can enjoy life in the open. This proposition open to a limited number only. References required. Applications considered in the order received. Get your bunch lined up and write or wire for particulars. J. E. Ford, Sheridan Bldg., Green Bay, Wis.

FOR SALE—Hunting and Fishing Lodge, located on eight-acre island with virgin timber. Wildcat Lake, Vilas County, Wisconsin. Good hunting, fishing, bathing and boating. Only cottage on entire lake and same complete with dishes, cooking utensils, stoves, rowboat, etc. One of few lakes with real virgin timber shore line and all owned by state and no other property on lake for sale. For quick disposal, $1,500. Will bear investigation. John E. Alexander, Port Edwards, Wisconsin. (3-6)

$5.00 down, $2.00 monthly, buys 2 ½ acres No. Michigan Fruit or Poultry Farm, Camp Site or Summer Home. $100.00. Burt Lake, Cheboygan County. Finest hunting, fishing, boating, swimming. Good auto roads. Get free booklet and map. O. Hermann, 140 So. Dearborn St., Chicago. (3-6)

Real Estate—Cont'd

LAKE frontage lots, cottages, resorts. Whole sections with lakes and Chippewa river, all priced to sell. Good roads; best deer hunting, musky and bass fishing to be had in Wis. Lakeshore farm suitable for golf course, will sell cheap or organize. Arthur Goff, Cable, Wis. (3-6)

8,000 ACRE Hunting Preserve. Within 150 miles New York City; numerous rivers and streams, great valuable tract woodland, splendid hunting and fishing; borders village and railroad. Settling estate, sacrifice $10 acre. Terms arranged. Strout, 255 Fourth Ave., New York City.

FOR Sale. 176.41 acres Cass Co., Minnesota. Ideal for Summer Resorts, Hunting or Country Club. Some virgin timber. Two lakes. Ideal fishing and hunting. Off Highway No. 19. Price $20,000.00. L. F. Peters, 2223 — 24th St., Port Huron, Michigan. (3-6)

LAKE Shore Timberland. 308 acres, lays between three beautiful little Lakes, all full of fine fish. Good Hunting. Nice springs. Just the place for summer resort. Aitkin County, Minnesota. Write Owner, O. W. Olive, Delta, Iowa. (3-4)

INDIAN Hills, Gunn Lake, Mason Co., Mich. New restricted resort, unexcelled bass and bluegill fishing. Trout streams nearby. Wooded lots. One hundred to five hundred dollars. E. V. Isenbarger, Moscow, Mich. (3-5)

LAKE frontage in the dense Wisconsin forest, Virgin timber, pure water, good fishing and bathing. Find rest, recreation and health. Morse & Tradewell, Antigo, Wisconsin. (3-4)

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